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ARL STATISTICS, 1987-88

ARL STATISTICS

1987-88

A COMPILATION OF STATISTICS
FROM THE ONE HUNDRED AND NINETEEN MEMBERS OF THE
ASSOCIATION OF RESEARCH LIBRARIES

Compiled by
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and
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ASSOCIATION OF RESEARCH LIBRARIES
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INTRODUCTION

The 1987-88 *ARL Statistics* presents data from the 119 U.S. and Canadian libraries that were members of the Association of Research Libraries during the 1987-88 fiscal year. The ARL membership consists of 107 university libraries and 12 public or private, independent research libraries. The University of Illinois at Chicago joined ARL during the fiscal year, and its data are reported here for the first time.

The 1987-88 statistics paint a disheartening picture of research libraries paying more for materials and buying less. Since 1985-86 ARL has been collecting data that allow calculation of rough price indexes for monographs and serials, to which 91% of the materials budget is devoted in university libraries. In the university libraries that have reported on monographs and purchased serials over the last three years, the median unit prices of both monographs and serials increased 12% from fiscal year 1987 to 1988. For the three-year period 1986 to 1988, the statistics indicate the following percent changes:

	Monographs	Serials
Median unit prices	+21%	+32%
Total expenditures	+ 2%	+30%
Number purchased	-15%	0%

Because of price increases, university libraries paid about one-third more in 1988 for the same number of serial subscriptions they had in 1986, and they bought 15% fewer monographs. It seems clear that ARL libraries are trying to protect their serials at the expense of monographs.

In order to provide a longer view of changes indicated by the data, an analysis was done of the statistics of the 93 university libraries that have been members of ARL since 1978-79 and that lacked no more than one data value for the ten years from 1978-79 through 1987-88. Highlights of the analysis are described in the following sections.

Expenditures: Over the ten-year period the various categories of expenditures increased as follows:

	Overall Increases	Annual Rates
Monographs, microforms, and other non-serial materials	91%	7%
Serials	143%	10%
Salaries and wages	87%	7%
Other operating expenses, including binding	162%	11%
Total expenditures	105%	8%

For some categories the calculated compound annual rates above (based on the differences between 1988 and 1979 data) differ in some years from the actual yearly increases. For example, as indicated earlier, expenditures for monographs and other non-serials have increased hardly at all since 1986. In respect to serials, increases during the years 1982-86 were under 10%, but since 1986 the increases have been 17% and 12%. After years of annual increases in the 9-16% range, the 1988 increase in other operating expenditures was inexplicably lower.

As a result of differing rates of increase, the ratios of the major expenditure categories to total expenditures have been changing steadily. The table below displays the ratios 25 years ago, 10 years ago, and in 1988, together with predicted ratios in the year 2000 if 1979-88 trends continue:

	1964	1979	1988	2000
Salaries and wages	59%	57%	52%	45%
Library materials	31%	31%	33%	35%
Other operating expenses	10%	12%	15%	20%

By the end of the century, if recent trends continue, serials will comprise two-thirds of materials expenditures. Almost twice as much will be spent on other operating expenditures (for example, automation and equipment) as on monographs, microforms, and other non-serial materials. Ten years ago, 75% of ARL libraries spent more--sometimes considerably more--on non-serial materials then on other operating expenses. 1988 is the first year in which a majority of libraries (56%) are spending more on other operating than on monographs, microforms, etc. ARL is changing from the "classic" 60/30/10 model for personnel/materials/other, to a 45/35/20 model. More and more, 15% of the budget that used to go to personnel is going to materials and other operating expenditures.

Collections: Because of rising prices ARL libraries are less well off in building their collections than they were ten years ago. They are adding only about 96% as many volumes as they added in 1979: some 350,000 volumes fewer in 1988 than in 1979 for the 93 university libraries in the analysis. The number of current serials is 13% higher than ten years ago, but this 13% increase in serials has been paid for with a 143% increase in the serials bill.

Personnel: Total staff in the 93 libraries increased by 10%, or 2,717 FTE's. 27% of the increase was professional staff, 25% nonprofessionals, and 48% student assistants. About two-thirds of the libraries had more professionals, more student assistants, and more total staff in 1988 than in 1979. 58% had more nonprofessionals.

The preceding analysis is based on aggregate data. Those using the *ARL Statistics* to compare individual libraries should consult the symbols indicated in the "ARL Library Data Tables" and in the "Footnotes". Although definitions used in the *Statistics* aim at achieving consistency, variant reporting practices do exist among ARL libraries. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the *ARL Statistics*; the exchange rate used for 1987-88 is 1.2826 Canadian dollars to one U.S. dollar.[1]

The rank order tables presented in this publication are based on quantitative data supplied by ARL member libraries. They are not indicative of qualitative factors and, therefore, should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

Kendon Stubbs
University of Virginia
January 8, 1989

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1 The rate used is the average monthly noon exchange rate published in the Bank of Canada *Review* for the period July 1987-June 1988. Expenditures reported in Canadian dollars are given in the "Footnotes" to the *ARL Statistics*.

ARL LIBRARY DATA TABLES

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
ALABAMA	GLM+	1	1,732,058	40,076	38,941	12,197	16,765	670	17,435	1,293,881
ALBERTA	BLM+	2	2,761,695	81,386	75,056	30,948	18,486	1,792	20,278	2,576,334
ARIZONA	GLM+	3	3,329,146	96,117	90,091	57,316	25,577	3,200	28,777	3,622,457
ARIZONA STATE	BL+	4	2,340,657	126,586	112,763	U/A	U/A	U/A	32,792	2,827,350
BOSTON	GLM+	5	1,665,753	57,964	43,417	22,466	17,749	11,626	29,375	2,587,487
BRIGHAM YOUNG	+	6	1,926,477	65,964	63,253	38,025	11,089	7,202	18,291	1,544,426
BRITISH COLUMBIA	GLM+	7	2,719,586	92,451	80,147	55,042	16,793	4,862	21,655	903,056
BROWN	b+	8	2,123,050	58,627	57,716	38,513	12,909	2,166	15,075	1,062,880
CALIFORNIA, BERKELEY	L+	9	7,190,821	195,012	158,887	U/A	U/A	U/A	98,861	4,051,125
CALIFORNIA, DAVIS	bLM+	10	2,227,255	79,564	67,685	55,913	38,678	12,484	51,162	2,656,808
CALIFORNIA, IRVINE	GM+	11	1,361,756	55,525	55,026	24,947	15,541	872	16,413	1,282,028
CALIFORNIA, LOS ANGELES	LM+	12	5,812,163	207,140	148,039	U/A	U/A	U/A	94,757	5,137,087
CALIFORNIA, RIVERSIDE	—+	13	1,369,083	67,960	65,211	31,586	11,728	1,069	12,797	1,159,401
CALIFORNIA, SAN DIEGO	M+	14	1,846,761	63,674	35,917	37,914	18,068	11,169	29,237	1,360,279
CALIFORNIA, SANTA BARBARA	+	15	1,862,167	60,302	56,128	34,039	12,672	9,112	21,784	3,342,333
CASE WESTERN RESERVE	GLM+	16	1,534,807	28,715	22,674	9,803	11,524	755	12,279	659,322
CHICAGO	LM+	17	4,970,720	111,663	105,583	50,570	U/A	U/A	54,137	1,454,193
CINCINNATI	GLM+	18	1,634,312	53,920	52,828	U/A	U/A	U/A	19,789	2,105,497
COLORADO	GL+	19	2,185,565	46,693	39,429	22,285	13,539	723	14,262	1,073,961
COLORADO STATE	G+	20	1,140,108	37,736	36,356	20,814	8,524	3,273	11,797	172,234

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
1	6,174	4,807	55	73	47	175	588,546	1,558,987	23,007	0
2	44,218	14,015	86	275	41	402	1,041,530	2,326,135	U/A	U/A
3	37,920	8,315	98	196	96	390	1,349,989	2,922,529	209,247	379,908
4	31,427	7,300	95	211	60	366	2,009,260	2,664,416	34,074	U/A
5	5,723	8,869	66	145	67	278	815,595	1,920,121	376,391	82,989
6	10,674	13,675	88	47	190	325	1,657,817	1,411,989	204,333	16,329
7	21,149	11,283	103	269	47	419	1,936,721	2,007,770	U/A	U/A
8	9,909	5,341	72	106	65	243	1,336,164	1,278,510	10,998	U/A
9	38,500	19,409	168	294	278	740	2,897,226	3,768,251	U/A	U/A
10	35,373	8,328	68	187	65	320	1,662,850	2,898,793	207,033	0
11	15,990	9,425	55	112	50	217	903,086	1,880,042	192,251	60,956
12	60,225	10,028	209	325	177	711	4,245,299	2,898,008	U/A	U/A
13	10,283	9,654	34	98	41	173	1,036,598	1,200,963	46,539	0
14	20,609	9,453	82	173	76	331	1,259,409	1,856,112	207,382	50,043
15	9,465	10,362	62	145	43	250	1,741,829	1,586,088	U/A	0
16	35,605	9,027	62	79	30	171	498,700	1,691,341	50,938	88,967
17	35,724	8,456	74	214	61	349	1,483,595	2,443,075	U/A	0
18	26,757	10,562	77	140	77	294	1,311,611	2,203,671	U/A	U/A
19	18,741	9,609	50	100	61	211	701,728	1,826,849	238,781	100,000
20	16,994	12,290	41	78	13	132	793,003	1,183,032	34,482	321,286

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
2,170,540	79,866	1,299,071	959,913	324,480	2,583,464	810,793	5,644,663	ALABAMA
3,367,665	112,979	2,689,433	4,715,494	549,665	7,954,592	1,591,204	13,026,440	ALBERTA
4,861,673	362,882	2,854,040	2,760,398	701,745	6,316,183	1,117,367	12,658,105	ARIZONA
4,707,750	260,762	2,273,461	2,759,900	409,392	5,442,753	2,001,091	12,412,356	ARIZONA STATE
3,195,096	282,869	1,868,148	2,061,080	323,941	4,253,169	897,339	8,628,473	BOSTON
3,290,468	111,329	2,292,803	687,155	1,218,300	4,198,258	771,433	8,371,488	BRIGHAM YOUNG
3,944,491	162,328	3,184,559	4,156,542	680,271	8,021,372	1,064,920	13,193,111	BRITISH COLUMBIA
2,625,672	105,543	2,093,206	1,592,113	334,894	4,020,213	2,455,694	9,207,122	BROWN
6,665,477	779,542	5,449,080	7,225,020	4,383,357	17,057,457	3,021,716	27,524,192	CALIFORNIA, BERKELEY
4,768,676	365,005	2,755,610	4,275,629	587,365	7,618,604	2,281,895	15,034,180	CALIFORNIA, DAVIS
3,036,335	223,339	2,158,441	2,470,940	628,492	5,257,873	1,249,457	9,767,004	CALIFORNIA, IRVINE
7,143,307	582,910	7,500,423	6,259,331	2,076,091	15,835,845	4,885,314	28,447,376	CALIFORNIA, LOS ANGELES
2,284,100	160,795	1,357,365	1,777,244	574,555	3,709,164	688,997	6,843,056	CALIFORNIA, RIVERSIDE
3,372,946	315,351	2,451,236	3,421,731	813,589	6,686,556	1,582,147	11,957,000	CALIFORNIA, SAN DIEGO
3,327,917	264,609	2,330,575	2,816,851	734,974	5,882,400	1,021,536	10,496,462	CALIFORNIA, SANTA BARBARA
2,329,946	106,121	1,894,909	1,074,147	124,051	3,093,107	645,305	6,174,479	CASE WESTERN RESERVE
3,926,670	306,237	1,947,092	3,613,773	655,801	6,216,666	3,504,231	13,953,804	CHICAGO
3,515,282	128,485	U/A	U/A	597,330	5,371,627	1,390,021	10,405,415	CINCINNATI
2,867,358	130,037	1,439,159	2,241,567	554,391	4,235,117	539,236	7,771,748	COLORADO
2,331,803	107,000	1,160,939	1,358,416	205,321	2,724,676	1,264,578	6,428,057	COLORADO STATE

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ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
COLUMBIA	LM+	21	5,740,832	140,135	114,907	U/A	40,051	18,465	58,516	3,694,261
CONNECTICUT	BLM+	22	2,146,993	78,955	72,550	U/A	U/A	U/A	20,871	2,352,897
CORNELL	BL+	23	4,924,421	141,067	116,911	U/A	U/A	U/A	58,429	4,530,771
DARTMOUTH	GM+	24	1,722,398	60,432	57,551	U/A	16,469	3,910	20,379	2,014,484
DELAWARE	G+	25	1,837,158	58,243	58,243	U/A	U/A	U/A	22,543	1,689,080
DUKE	GLM+	26	3,668,935	90,060	77,738	44,517	U/A	U/A	29,484	1,279,898
EMORY	GL+	27	1,786,394	54,807	51,314	U/A	U/A	U/A	16,867	1,656,555
FLORIDA	GLM+	28	2,701,857	105,778	96,256	46,553	25,839	3,460	29,299	2,478,106
FLORIDA STATE	GBL+	29	1,718,271	54,147	50,551	U/A	U/A	U/A	18,018	3,103,577
GEORGETOWN	GLM+	30	1,669,036	60,872	55,594	32,974	19,680	1,927	21,607	1,735,808
GEORGIA	BL+	31	2,688,433	83,832	83,832	U/A	42,659	13,965	56,624	3,797,738
GEORGIA TECH	+	32	1,576,452	44,926	44,259	5,194	15,082	4,714	19,796	2,783,380
GUELPH	bG+	33	1,779,183	72,945	72,945	26,541	U/A	U/A	9,595	1,090,532
HARVARD	LM+	34	11,496,906	313,922	201,831	U/A	U/A	U/A	102,000	4,902,955
HAWAII	G+	35	2,244,118	81,131	79,621	U/A	26,053	6,927	32,980	2,363,009
HOUSTON	GL+	36	1,562,001	35,985	35,710	20,914	19,081	861	19,942	3,001,026
HOWARD	GLM+	37	1,671,119	53,973	52,860	45,421	27,957	1,725	29,682	2,987,742
ILLINOIS, CHICAGO	M+	38	1,563,615	67,294	60,341	33,433	U/A	U/A	18,204	1,662,162
ILLINOIS, URBANA	L+	39	7,377,051	189,222	186,608	124,002	U/A	U/A	92,530	3,198,912
INDIANA	GL+	40	4,011,675	103,316	90,314	42,000	25,237	1,447	26,684	1,466,554

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
21	19,441	6,111	163	328	140	631	2,427,075	3,161,492	40,841	21,683
22	25,166	10,953	66	101	63	230	U/A	1,727,741	U/A	U/A
23	24,396	13,337	163	270	78	511	U/A	U/A	U/A	U/A
24	12,795	7,617	41	107	36	184	747,680	1,694,601	U/A	0
25	11,178	3,785	57	115	48	220	1,778,497	1,566,949	U/A	162,595
26	28,963	12,902	94	176	50	320	1,730,876	2,426,964	97,508	106,773
27	21,897	6,019	65	143	50	258	1,435,300	1,712,654	346,992	110,301
28	36,078	6,798	106	184	113	403	1,334,091	2,323,683	618,071	85,816
29	27,579	7,278	56	101	80	237	1,255,903	1,935,139	45,429	53,239
30	5,293	3,634	73	141	73	287	1,219,511	1,487,902	307,989	0
31	31,711	5,979	78	195	81	354	996,874	2,747,415	330,317	0
32	15,039	3,104	43	51	18	112	291,947	1,121,368	356,976	99,836
33	2,260	3,319	30	110	14	154	519,647	965,471	136,063	U/A
34	37,127	8,281	325	575	149	1,049	4,557,947	4,027,414	1,377,412	5,281
35	14,629	2,279	66	100	65	231	892,318	1,663,805	98,620	0
36	9,036	10,209	45	86	47	178	754,168	1,832,963	29,734	179,397
37	2,584	1,211	81	124	59	264	1,243,949	2,789,240	60,001	21,225
38	31,799	16,031	74	179	42	295	1,282,017	1,733,270	98,467	0
39	136,745	164,950	148	275	113	536	2,000,890	3,058,629	U/A	184,510
40	46,265	12,343	112	205	150	467	1,559,352	2,162,010	488,660	286,462

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
5,651,091	558,271	5,481,912	5,210,977	1,369,985	12,062,874	3,638,056	21,910,292	COLUMBIA
3,268,212	207,997	U/A	U/A	U/A	5,151,484	1,103,412	9,731,105	CONNECTICUT
4,905,819	236,082	5,038,874	3,687,300	638,400	9,364,574	2,973,584	17,480,059	CORNELL
2,442,281	72,677	1,269,662	1,828,340	119,315	3,217,317	824,054	6,556,329	DARTMOUTH
3,508,041	173,112	1,375,710	1,400,979	316,356	3,093,045	880,854	7,655,052	DELAWARE
4,362,121	178,265	2,920,936	2,845,850	244,745	6,011,531	1,625,875	12,177,792	DUKE
3,605,247	130,214	2,023,862	2,055,519	496,187	4,575,568	1,843,350	10,154,379	EMORY
4,361,661	232,824	3,029,273	3,388,448	860,751	7,278,472	1,081,018	12,953,975	FLORIDA
3,289,710	166,379	1,482,022	1,228,439	384,333	3,094,794	445,376	6,996,259	FLORIDA STATE
3,015,402	171,287	2,188,120	2,460,397	593,529	5,242,046	1,987,691	10,416,426	GEORGETOWN
4,074,606	172,541	2,033,523	2,379,851	570,875	4,984,249	1,266,457	10,497,853	GEORGIA
1,870,127	73,996	1,227,880	522,641	122,754	1,873,275	655,881	4,473,279	GEORGIA TECH
1,621,181	63,726	1,113,999	1,650,288	108,183	2,872,470	332,128	4,889,616	GUELPH
9,968,054	772,872	10,119,557	9,384,046	960,466	20,464,069	5,991,495	37,196,490	HARVARD
2,654,743	194,099	2,332,310	1,766,971	527,392	4,626,673	318,313	7,793,828	HAWAII
2,796,262	82,056	1,279,021	1,164,416	449,950	2,893,387	661,942	6,433,647	HOUSTON
4,114,415	131,723	2,621,507	2,248,412	209,640	5,079,559	1,501,603	10,827,300	HOWARD
3,113,754	130,736	2,214,703	2,383,800	445,761	5,044,264	1,130,097	9,418,851	ILLINOIS, CHICAGO
5,244,029	272,882	4,291,310	3,580,659	790,189	8,662,158	2,158,012	16,337,081	ILLINOIS, URBANA
4,496,484	232,669	3,194,145	2,947,297	888,524	7,029,966	849,306	12,608,425	INDIANA

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
IOWA	LM+	41	2,930,932	96,134	91,335	48,770	21,634	1,243	22,877	3,020,711
IOWA STATE	+	42	1,752,409	55,534	43,817	21,094	13,650	6,143	19,793	2,048,486
JOHNS HOPKINS	+	43	2,728,347	67,083	54,791	33,965	15,812	4,759	20,571	1,449,195
KANSAS	GLM+	44	2,688,482	71,930	67,677	36,747	19,721	7,812	27,533	1,998,985
KENT STATE	G+	45	1,659,396	27,701	21,013	21,977	6,792	525	7,317	799,454
KENTUCKY	GLM+	46	2,086,428	45,738	43,035	13,008	16,027	2,661	18,688	2,221,341
LAVAL	+	47	1,653,067	58,103	57,514	25,529	10,396	4,162	14,558	749,109
LOUISIANA STATE	GL+	48	2,327,869	64,854	57,475	29,650	18,189	4,078	22,267	1,943,977
MCGILL	bGLM+	49	2,441,494	83,300	50,553	53,464	14,250	3,259	17,509	920,889
MCMASTER	GM+	50	1,297,180	43,816	38,646	26,641	9,959	693	10,652	394,172
MANITOBA	GLM+	51	1,461,076	34,071	29,769	16,440	10,777	1,361	12,138	990,872
MARYLAND	+	52	1,928,272	76,396	71,762	28,456	21,053	1,694	22,747	3,630,297
MASSACHUSETTS	G+	53	2,275,822	78,274	76,465	45,179	14,744	1,926	16,670	1,636,005
MIT	+	54	2,103,392	54,991	40,574	19,069	10,626	10,776	21,402	1,618,554
MIAMI	GLM+	55	1,615,442	50,961	38,882	28,646	U/A	U/A	15,570	979,247
MICHIGAN	+	56	6,133,171	130,358	111,004	U/A	34,497	33,033	67,530	3,472,083
MICHIGAN STATE	+	57	3,301,739	116,564	76,594	40,411	15,716	13,840	29,556	3,256,021
MINNESOTA	bLM+	58	4,473,262	94,262	90,698	U/A	30,141	9,105	39,246	2,616,670
MISSOURI	GLM+	59	2,410,569	47,506	45,334	22,189	12,925	4,140	17,065	4,559,542
NEBRASKA	bL+	60	1,939,732	54,887	50,232	27,738	U/A	U/A	20,870	2,206,608

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
41	50,716	8,581	86	111	77	274	1,861,358	2,049,249	69,350	347,940
42	23,251	5,603	43	108	58	209	814,231	1,809,881	34,131	29,402
43	17,468	17,681	84	198	48	330	1,423,924	2,061,677	133,718	413,208
44	34,176	16,896	87	124	87	298	1,620,068	2,043,554	19,470	55,997
45	11,789	7,373	42	93	48	183	519,602	1,062,065	171,797	0
46	19,282	11,023	68	121	74	263	796,619	1,942,350	U/A	103,744
47	14,810	10,051	70	192	7	269	714,190	1,404,862	292,620	118,911
48	11,032	6,615	62	118	103	283	1,209,750	2,092,682	67,464	0
49	26,339	7,363	80	199	42	321	1,587,401	1,752,277	U/A	634,206
50	9,973	7,947	38	140	17	195	1,337,702	1,800,795	U/A	10,607
51	12,199	5,520	57	147	25	229	523,383	1,461,430	U/A	U/A
52	16,683	3,138	90	148	110	348	1,311,033	2,347,826	371,690	0
53	15,878	6,907	56	121	49	226	1,281,363	1,831,597	296,427	496,794
54	15,968	2,967	87	146	32	265	743,172	1,681,154	48,252	203,468
55	20,688	12,468	74	123	44	241	817,069	2,251,674	60,520	9,501
56	22,773	11,150	142	302	151	595	U/A	3,480,670	U/A	U/A
57	15,362	5,964	80	131	120	331	1,456,119	1,979,604	U/A	0
58	154,287	11,446	126	185	152	463	1,585,277	3,193,370	290,383	250,851
59	29,449	7,866	56	124	55	235	790,495	1,592,925	17,907	81,854
60	13,280	6,475	53	111	46	210	644,529	2,018,256	U/A	U/A

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
4,327,897	174,193	2,642,060	1,956,886	395,377	4,994,323	447,790	9,944,203	IOWA
2,687,645	162,763	1,392,754	1,668,244	430,169	3,491,167	444,404	6,785,979	IOWA STATE
4,032,527	155,997	2,582,249	3,139,083	394,702	6,116,034	2,017,823	12,322,381	JOHNS HOPKINS
3,739,089	157,551	2,154,003	2,069,362	624,902	4,848,267	1,513,009	10,257,916	KANSAS
1,753,464	67,610	1,473,468	1,873,182	345,484	3,692,134	1,255,330	6,768,538	KENT STATE
2,842,713	80,775	1,715,515	1,591,832	522,953	3,830,300	511,584	7,265,372	KENTUCKY
2,530,583	57,772	2,624,352	3,582,668	109,155	6,316,175	785,734	9,690,264	LAVAL
3,369,896	68,050	1,697,223	1,495,553	726,870	3,919,646	604,281	7,961,873	LOUISIANA STATE
3,973,884	132,387	2,701,844	3,954,191	432,550	7,088,585	491,336	11,686,192	MCGILL
3,149,104	82,219	1,200,972	2,325,286	269,292	3,795,550	394,403	7,421,276	MCMASTER
1,984,813	104,142	1,813,500	2,222,402	359,369	4,395,271	664,066	7,148,292	MANITOBA
4,030,549	275,539	2,647,728	2,710,266	819,399	6,177,393	1,228,156	11,711,637	MARYLAND
3,906,181	121,665	2,267,129	2,347,749	367,657	4,982,535	488,538	9,498,919	MASSACHUSETTS
2,676,046	150,106	2,354,708	2,399,776	342,521	5,097,005	1,519,608	9,442,765	MIT
3,138,764	107,170	1,978,913	1,676,691	364,003	4,019,607	1,102,904	8,368,445	MIAMI
6,838,655	303,006	4,659,751	4,835,591	1,197,375	10,692,717	2,637,782	20,472,160	MICHIGAN
3,435,723	178,922	2,511,721	2,232,806	1,155,605	5,900,132	2,001,779	11,516,556	MICHIGAN STATE
5,319,881	448,889	4,192,921	3,745,089	1,953,272	9,891,282	3,190,278	18,850,330	MINNESOTA
2,483,181	129,136	1,599,073	1,592,213	426,049	3,617,335	1,192,333	7,421,985	MISSOURI
2,662,785	129,638	1,374,159	1,298,936	325,062	2,998,157	634,350	6,424,930	NEBRASKA

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ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
NEW MEXICO	G+	61	1,299,782	30,204	22,893	20,328	U/A	U/A	10,722	3,844,403
NEW YORK	LM+	62	2,988,453	73,914	68,278	35,227	24,770	3,696	28,466	2,396,661
NORTH CAROLINA	LM+	63	3,520,273	121,680	105,630	54,037	U/A	U/A	42,094	2,731,236
NORTH CAROLINA STATE	G+	64	1,239,528	45,927	37,976	19,824	12,462	2,591	15,053	2,893,815
NORTHWESTERN	+	65	3,346,817	88,466	76,452	U/A	U/A	U/A	33,226	1,855,577
NOTRE DAME	GL+	66	1,869,717	72,403	66,852	U/A	U/A	U/A	15,559	1,109,945
OHIO STATE	bLM+	67	4,254,266	96,629	84,656	69,321	26,749	4,405	31,154	2,971,011
OKLAHOMA	+	68	2,230,257	40,382	38,157	17,984	16,515	902	17,417	2,657,805
OKLAHOMA STATE	GB+	69	1,483,703	28,810	21,718	13,142	9,873	1,038	10,911	730,908
OREGON	GL+	70	1,804,926	39,362	39,293	30,962	16,038	5,043	21,081	1,697,564
PENNSYLVANIA	LM+	71	3,499,741	85,540	57,352	U/A	U/A	U/A	28,140	1,105,575
PENNSYLVANIA STATE	B+	72	2,965,695	84,004	77,353	U/A	29,324	U/A	29,324	2,925,368
PITTSBURGH	LM+	73	2,713,324	87,744	26,361	U/A	U/A	U/A	20,628	2,258,997
PRINCETON	+	74	4,070,827	114,716	109,412	82,803	U/A	U/A	33,836	2,343,650
PURDUE	bG+	75	1,814,065	73,415	67,203	16,675	18,003	3,053	21,056	1,733,692
QUEEN'S	bGLM+	76	1,712,140	40,553	39,869	24,167	15,599	U/A	15,599	1,640,130
RICE	b+	77	1,368,323	45,110	44,853	U/A	11,434	752	12,186	1,790,416
ROCHESTER	BM+	78	2,590,720	51,153	41,663	18,448	11,853	1,831	13,684	2,360,899
RUTGERS	GBL+	79	3,065,533	116,017	96,460	63,673	U/A	U/A	27,482	3,362,830
SASKATCHEWAN	GLM+	80	1,360,380	50,674	34,116	17,850	8,843	846	9,689	1,896,380

B - Includes Branch Campuses
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N/A - Not Applicable
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ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
61	9,821	5,928	46	109	96	251	503,450	1,206,370	U/A	342,821
62	11,062	7,380	109	186	69	364	1,144,620	2,874,549	186,078	152,287
63	29,021	4,875	117	205	90	412	1,917,591	2,619,503	308,682	U/A
64	29,571	4,278	43	122	59	224	767,276	1,756,547	280,303	221,308
65	17,922	12,931	114	146	100	360	1,072,458	2,136,238	151,815	70,320
66	25,121	7,583	42	126	22	190	1,078,464	1,422,936	141,969	73,749
67	31,060	13,297	118	210	126	454	1,757,406	3,136,210	U/A	U/A
68	25,448	14,716	48	80	63	191	860,808	1,643,465	94,831	108,328
69	12,660	5,431	45	75	65	185	565,897	1,443,603	92,456	28,324
70	14,239	8,078	50	91	74	215	912,555	1,611,696	U/A	410,355
71	17,315	14,607	108	165	95	368	1,407,698	2,554,585	U/A	U/A
72	22,457	12,250	113	275	69	457	1,866,689	2,895,260	U/A	U/A
73	15,747	8,095	83	169	90	342	1,265,663	2,035,590	152,726	7,964
74	7,856	6,078	105	222	48	375	2,991,139	2,084,136	378,391	0
75	13,609	7,570	59	147	62	268	765,635	2,196,588	36,839	0
76	4,188	6,551	44	151	20	215	1,034,915	1,662,734	10,660	726,709
77	15,717	3,125	42	76	31	149	851,740	1,171,283	25,256	151,670
78	25,871	8,576	62	113	56	231	940,726	2,113,028	8,003	345,564
79	17,476	12,852	118	266	137	521	2,409,911	3,343,055	379,478	267,419
80	9,017	10,023	36	129	12	177	667,177	1,866,567	U/A	0

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
2,052,641	101,734	1,277,462	1,950,978	766,523	3,994,963	641,921	6,791,259	NEW MEXICO
4,357,534	262,520	3,513,406	3,362,560	717,499	7,593,465	2,311,590	14,525,109	NEW YORK
4,845,776	239,916	3,700,525	3,440,667	507,682	7,648,874	1,969,565	14,704,131	NORTH CAROLINA
3,025,434	121,734	1,278,617	2,062,027	440,048	3,780,692	1,214,250	8,142,110	NORTH CAROLINA STATE
3,430,831	171,013	3,468,672	2,541,056	735,042	6,744,770	1,505,041	11,851,655	NORTHWESTERN
2,717,118	118,044	1,212,366	1,547,585	199,373	2,959,324	413,839	6,208,325	NOTRE DAME
4,893,616	252,896	3,547,723	3,824,102	1,063,093	8,434,918	2,210,018	15,791,448	OHIO STATE
2,707,432	70,317	1,286,207	1,010,112	492,056	2,788,375	620,741	6,186,865	OKLAHOMA
2,130,280	78,003	1,340,377	846,777	433,289	2,620,443	864,270	5,692,996	OKLAHOMA STATE
2,934,606	144,161	1,339,964	1,354,719	567,389	3,262,072	828,506	7,169,345	OREGON
3,962,283	303,542	3,196,099	3,503,015	702,369	7,401,483	2,110,454	13,777,762	PENNSYLVANIA
4,761,949	317,570	U/A	U/A	U/A	8,600,913	2,399,193	16,079,625	PENNSYLVANIA STATE
3,461,943	186,368	2,325,968	2,470,639	639,311	5,435,918	1,507,852	10,592,081	PITTSBURGH
5,453,666	439,065	3,699,081	3,839,191	499,579	8,037,851	1,171,303	15,101,885	PRINCETON
2,999,062	108,588	1,826,125	1,830,921	445,164	4,102,210	755,943	7,965,803	PURDUE
3,435,018	85,954	U/A	U/A	142,619	3,926,622	431,789	7,879,383	QUEEN'S
2,199,949	46,781	1,178,345	880,437	184,797	2,243,579	546,318	5,036,627	RICE
3,407,321	123,564	1,752,134	1,534,943	352,619	3,639,696	1,229,450	8,400,031	ROCHESTER
6,399,863	393,491	4,944,779	5,307,209	1,230,803	11,482,791	2,507,406	20,783,551	RUTGERS
2,533,744	94,750	1,093,203	2,133,994	157,340	3,384,537	402,970	6,416,000	SASKATCHEWAN

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ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
SOUTH CAROLINA	LM+	81	2,292,721	73,748	67,149	U/A	U/A	U/A	17,782	2,368,227
SOUTHERN CALIFORNIA	LM+	82	2,533,850	61,762	49,698	35,088	14,499	22,625	37,124	2,627,754
SOUTHERN ILLINOIS	GL+	83	1,997,009	52,394	46,609	18,588	U/A	U/A	21,439	2,372,434
STANFORD	+	84	5,740,162	161,451	141,799	U/A	U/A	U/A	54,781	3,104,714
SUNY-ALBANY	GB+	85	1,225,304	38,509	30,342	21,562	16,277	0	16,277	2,383,431
SUNY-BUFFALO	LM+	86	2,492,502	59,329	56,048	23,411	19,208	4,902	24,110	3,461,883
SUNY-STONY BROOK	GM+	87	1,614,088	48,486	47,390	25,438	U/A	U/A	11,803	2,633,725
SYRACUSE	bGL+	88	2,247,176	37,305	29,945	19,526	U/A	U/A	20,994	3,308,306
TEMPLE	GBLM+	89	1,999,792	48,025	47,199	19,688	14,635	2,207	16,842	1,392,179
TENNESSEE	L+	90	1,792,425	45,152	42,864	20,599	15,858	4,740	20,598	2,446,158
TEXAS	L+	91	5,888,776	141,903	135,147	U/A	U/A	U/A	79,392	4,020,195
TEXAS A&M	GM+	92	1,786,251	64,600	62,591	28,100	15,713	1,155	16,868	3,478,815
TORONTO	LM+	93	5,698,275	166,792	141,714	U/A	29,753	7,673	37,426	1,051,744
TULANE	GBLM+	94	1,715,893	49,791	39,906	21,403	U/A	U/A	16,496	1,722,485
UTAH	G+	95	1,705,473	61,734	58,923	58,902	10,649	2,918	13,567	2,274,245
VANDERBILT	GLM+	96	1,761,379	59,798	49,605	U/A	U/A	U/A	18,862	1,529,198
VIRGINIA	GLM+	97	3,003,066	112,535	100,243	63,108	21,306	2,602	23,908	3,923,464
VPI & SU	+	98	1,632,883	45,907	39,126	23,226	15,582	2,600	18,182	4,115,389
WASHINGTON	LM+	99	4,764,341	162,688	105,430	28,795	U/A	U/A	55,080	4,890,148
WASHINGTON STATE	+	100	1,527,932	36,280	35,068	20,498	U/A	U/A	21,240	2,457,737

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	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
81	13,841	6,496	60	113	30	203	743,113	1,810,259	12,966	U/A
82	6,520	4,665	205	152	189	546	1,241,852	2,631,595	603,384	292,716
83	53,429	8,311	55	96	95	246	553,721	1,836,117	46,399	U/A
84	18,198	8,278	162	359	97	618	3,693,047	3,601,493	U/A	U/A
85	20,991	7,637	50	85	35	170	564,636	1,485,626	3,159	265,229
86	32,152	9,159	92	115	84	291	862,737	2,258,476	153,989	155,505
87	23,655	5,988	54	125	42	221	880,530	1,684,930	34,693	360,358
88	6,368	5,587	69	147	56	272	927,850	1,952,767	54,055	U/A
89	9,786	6,245	70	114	43	227	903,099	1,655,736	54,400	286,765
90	8,399	4,913	57	143	44	244	619,549	1,832,381	43,899	33,907
91	16,206	8,665	137	376	73	586	2,080,578	2,761,701	U/A	U/A
92	41,135	20,489	67	150	92	309	980,831	2,256,497	227,511	5,445
93	20,583	8,731	160	496	174	830	2,953,759	3,030,481	U/A	U/A
94	10,367	9,761	52	101	28	181	1,031,619	1,638,882	38,820	110,975
95	11,393	7,881	50	111	68	229	1,770,351	1,189,560	U/A	U/A
96	18,491	9,081	87	137	65	289	1,035,961	2,044,362	194,071	171,336
97	25,349	9,966	96	194	53	343	1,846,074	2,282,160	566,399	0
98	14,877	3,547	59	112	49	220	609,872	2,481,964	U/A	255,724
99	79,749	5,336	119	238	126	483	1,181,542	3,431,030	248,703	59,414
100	18,688	4,513	45	111	50	206	682,346	1,704,943	24,697	0

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
2,566,338	109,218	1,697,418	1,530,549	221,217	3,449,184	479,738	6,604,478	SOUTH CAROLINA
4,769,547	162,681	3,948,260	2,682,813	682,644	7,313,717	1,910,440	14,156,385	SOUTHERN CALIFORNIA
2,436,237	127,319	1,658,090	1,600,094	660,950	3,919,134	726,540	7,209,230	SOUTHERN ILLINOIS
7,294,540	429,043	6,163,513	8,033,467	1,159,892	15,356,872	3,612,195	26,692,650	STANFORD
2,318,650	68,400	1,138,913	1,937,177	254,360	3,330,450	609,493	6,326,993	SUNY-ALBANY
3,430,707	142,780	2,831,707	2,026,534	642,055	5,500,296	1,629,164	10,702,947	SUNY-BUFFALO
2,960,511	108,834	1,862,913	2,478,369	268,714	4,609,996	501,475	8,180,816	SUNY-STONY BROOK
2,934,672	68,284	1,733,056	1,721,172	224,200	3,678,428	1,605,370	8,286,754	SYRACUSE
2,900,000	114,003	2,077,121	1,608,746	229,652	3,915,519	677,792	7,607,314	TEMPLE
2,529,736	115,463	1,942,864	2,049,366	288,178	4,280,408	839,687	7,765,294	TENNESSEE
4,842,279	170,692	3,633,324	5,047,033	755,360	9,435,717	3,133,759	17,582,447	TEXAS
3,470,284	127,061	1,803,455	1,803,099	627,921	4,234,475	1,223,649	9,055,469	TEXAS A&M
5,984,240	234,340	5,252,877	8,028,746	852,815	14,134,438	915,669	21,268,687	TORONTO
2,820,296	111,271	1,420,186	1,328,839	202,232	2,951,257	1,552,263	7,435,087	TULANE
2,959,911	115,448	1,241,321	1,424,177	557,934	3,223,432	1,205,015	7,503,806	UTAH
3,445,730	134,485	2,321,246	1,933,436	304,105	4,558,787	1,806,469	9,945,471	VANDERBILT
4,694,633	218,085	2,540,255	3,160,938	601,168	6,302,361	2,277,790	13,492,869	VIRGINIA
3,347,560	117,108	1,565,833	1,708,523	354,065	3,628,421	760,210	7,853,299	VPI & SU
4,920,689	277,056	3,090,252	4,462,094	934,317	8,486,663	2,072,333	15,756,741	WASHINGTON
2,411,986	82,959	1,176,278	2,110,219	421,026	3,707,523	1,235,803	7,438,271	WASHINGTON STATE

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Monographs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
WASHINGTON U.-ST. LOUIS	G+	101	2,169,792	53,136	48,818	25,611	17,799	573	18,372	1,683,373
WATERLOO	+	102	1,578,378	71,170	45,107	34,675	12,657	1,456	14,113	688,938
WAYNE STATE	+	103	2,233,540	59,494	53,874	24,075	16,443	7,353	23,796	1,974,435
WESTERN ONTARIO	+	104	1,872,247	81,640	54,457	31,871	U/A	U/A	18,534	2,080,423
WISCONSIN	G+	105	4,804,386	100,070	91,136	U/A	U/A	U/A	50,913	3,018,515
YALE	G+	106	8,538,156	156,767	146,449	129,155	35,446	20,600	56,046	2,861,143
YORK	+	107	1,697,238	55,144	50,756	U/A	U/A	U/A	18,637	725,906
BOSTON PUBLIC LIBRARY	G+	108	6,003,396	257,137	196,501	282,332	U/A	U/A	16,436	3,717,453
CANADA INST. FOR SCITECH.	B+	109	2,135,500	62,000	61,500	30,000	29,900	2,500	32,400	2,300,000
CENTER FOR RESEARCH LIBS.	G+	110	2,893,006	31,823	31,823	14,602	12,616	0	12,616	1,109,512
LIBRARY OF CONGRESS	L+	111	21,214,227	266,768	256,999	98,880	37,399	137,500	174,899	7,343,209
LINDA HALL LIBRARY	G+	112	613,290	18,460	18,340	9,800	11,000	2,120	13,120	43,400
NATL. AGRICULTURAL LIB.	+	113	1,993,709	38,351	38,351	6,182	9,000	18,000	27,000	859,415
NATL. LIBRARY OF CANADA	+	114	1,192,188	61,459	60,567	12,265	6,814	14,922	21,736	2,794,183
NATL. LIBRARY OF MEDICINE	M+	115	1,873,403	46,885	45,287	10,547	22,191	3,693	25,884	250,504
NEWBERRY LIBRARY	G+	116	1,420,027	7,954	7,865	3,571	U/A	U/A	6,600	250,645
NEW YORK PUBLIC LIBRARY	+	117	6,197,420	90,318	42,318	U/A	U/A	U/A	151,999	3,104,212
NEW YORK STATE LIBRARY	LM+	118	2,063,573	54,380	54,171	14,158	9,513	10,992	20,505	4,129,489
SMITHSONIAN INSTITUTION	bB+	119	1,052,414	30,721	28,812	10,828	3,797	13,133	16,930	U/A

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
101	20,926	10,079	66	124	40	230	904,464	2,461,542	102,909	111,400
102	4,836	4,903	44	140	21	205	1,024,532	1,275,916	U/A	U/A
103	27,606	3,310	74	96	96	266	1,479,538	2,154,916	U/A	0
104	9,676	4,155	54	202	50	306	1,141,226	1,894,274	U/A	35,655
105	77,690	13,322	139	216	149	504	1,639,104	2,855,167	286,291	0
106	9,661	6,365	195	378	95	868	1,916,700	2,945,700	671,600	3,282,900
107	8,742	4,225	48	138	52	238	1,031,230	1,324,858	120,524	150,741
108	35,918	801	228	402	35	665	5,318,535	1,235,000	688,839	0
109	427,302	0	107	118	11	236	U/A	U/A	U/A	U/A
110	36,679	0	23	30	15	68	20,027	181,217	670,535	0
111	56,293	589	2,652	2,158	N/A	4,810	1,900,827	2,595,663	1,995,862	82,511
112	50,477	91	21	38	N/A	59	199,806	1,270,468	U/A	41,494
113	116,645	18,908	102	89	10	201	319,100	1,098,400	U/A	U/A
114	79,550	963	202	319	U/A	521	560,108	439,716	644,164	35,282
115	143,151	169	149	103	20	272	658,253	2,659,000	190,325	0
116	1,188	256	51	59	N/A	110	384,559	145,954	U/A	U/A
117	4,848	2,159	243	357	150	750	2,033,000	4,064,000	U/A	U/A
118	37,392	1,900	85	135	N/A	220	558,063	1,706,595	U/A	0
119	6,912	14,488	51	68	0	119	556,800	619,000	4,000	479,776

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
3,580,315	108,295	1,829,832	1,752,944	270,060	3,852,836	2,016,177	9,557,623	WASHINGTON U.-ST. LOUIS
2,300,448	57,684	1,469,403	2,206,294	197,592	3,873,289	419,351	6,650,772	WATERLOO
3,634,454	96,729	2,624,485	1,387,953	444,210	4,456,648	2,207,502	10,395,333	WAYNE STATE
3,071,155	162,114	U/A	U/A	603,191	5,179,925	777,061	9,190,255	WESTERN ONTARIO
4,780,562	197,122	4,321,891	4,211,222	1,221,229	9,754,342	3,429,082	18,161,108	WISCONSIN
8,816,900	348,100	6,111,500	5,781,000	691,200	12,583,700	4,035,000	25,783,700	YALE
2,627,353	168,953	1,760,866	2,312,602	503,265	4,576,733	1,077,046	8,450,085	YORK
7,242,374	104,455	U/A	U/A	U/A	15,938,753	3,033,655	26,319,237	BOSTON PUBLIC LIBRARY
6,622,486	U/A	U/A	U/A	U/A	6,242,788	6,298,924	19,164,198	CANADA INST. FOR SCITECH.
871,779	0	694,161	407,271	125,553	1,226,985	1,021,069	3,119,833	CENTER FOR RESEARCH LIBS.
6,574,863	1,053,570	U/A	U/A	N/A	147,526,000	99,286,567	254,441,000	LIBRARY OF CONGRESS
1,511,768	73,520	U/A	U/A	N/A	1,186,476	242,627	3,014,391	LINDA HALL LIBRARY
1,417,500	50,000	3,432,600	2,936,800	140,000	6,509,400	6,967,100	14,944,000	NATL. AGRICULTURAL LIB.
1,679,270	9,321	5,972,982	8,343,662	333,261	14,649,905	9,754,141	26,092,637	NATL. LIBRARY OF CANADA
3,507,578	175,000	U/A	U/A	U/A	7,980,000	5,862,422	17,525,000	NATL. LIBRARY OF MEDICINE
530,513	N/A	U/A	U/A	N/A	2,217,717	2,444,495	5,192,725	NEWBERRY LIBRARY
6,097,000	662,000	7,902,100	9,601,500	656,200	18,161,800	6,645,000	31,565,800	NEW YORK PUBLIC LIBRARY
2,264,658	74,999	2,726,049	2,219,341	N/A	4,945,390	1,324,452	8,609,499	NEW YORK STATE LIBRARY
1,659,576	136,000	1,670,670	1,113,781	0	2,784,451	572,317	5,152,344	SMITHSONIAN INSTITUTION

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

TOTALS

COLLECTIONS

Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Monographs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
1	2	3	4	5	6	7	8
			UNIVERSITY MEDIAN				
2,123,050	64,600	57,352	28,278	16,038	3,200	20,871	2,274,245
			UNIVERSITY HIGH				
11,496,906	313,922	201,831	129,155	42,659	33,033	102,000	5,137,087
			UNIVERSITY LOW				
1,140,108	27,701	21,013	5,194	6,792	0	7,317	172,234
			TOTALS - UNIVERSITY LIBRARIES				
290,340,374	8,362,893	7,196,193	2,660,660	1,261,947	345,147	2,950,051	246,075,630
			TOTALS - NON-UNIVERSITY LIBRARIES				
48,652,153	966,256	842,534	493,165	142,230	202,860	520,125	25,902,022
			GRAND TOTALS - ALL ARL LIBRARIES				
338,992,527	9,329,149	8,038,727	3,153,825	1,404,177	548,007	3,470,176	271,977,652

ARL LIBRARY DATA TABLE

TOTALS

INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
9	10	11	12	13	14	15	16	17	18
				UNIVERSITY MEDIAN					
18,198	8,078	70	140	62	269	1,142,923	1,947,558	127,121	82,421
				UNIVERSITY HIGH					
154,287	164,950	325	575	278	1,049	4,557,947	4,027,414	1,377,412	3,282,900
				UNIVERSITY LOW					
2,260	1,211	30	47	7	112	291,947	965,471	3,159	0
				TOTALS - UNIVERSITY LIBRARIES					
2,531,336	1,055,214	8,880	17,607	7,779	34,466	135,417,562	221,780,566	13,878,221	13,658,967
				TOTALS - NON-UNIVERSITY LIBRARIES					
996,365	40,324	3,914	3,876	241	8,031	12,509,078	16,015,013	4,193,725	639,063
				GRAND TOTALS - ALL ARL LIBRARIES					
3,527,701	1,095,538	12,794	21,483	8,020	42,497	147,926,640	237,795,579	18,071,946	14,298,030

ARL LIBRARY DATA TABLE

TOTALS

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.
19	20	21	22	23	24	25	26
			UNIVERSITY MEDIAN				
3,369,896	144,161	2,156,222	2,227,604	503,265	4,848,267	1,205,015	9,557,623
			UNIVERSITY HIGH				
9,968,054	779,542	10,119,557	9,384,046	4,383,357	20,464,069	5,991,495	37,196,490
			UNIVERSITY LOW				
1,621,181	46,781	1,093,203	522,641	108,183	1,873,275	318,313	4,473,279
			TOTALS - UNIVERSITY LIBRARIES				
394,539,591	20,123,465	259,019,831	274,848,018	62,587,253	623,342,533	155,556,758	1,193,562,457
			TOTALS - NON-UNIVERSITY LIBRARIES				
39,979,365	2,338,865	22,398,562	24,622,355	1,257,014	229,369,665	143,452,769	415,140,664
			GRAND TOTALS - ALL ARL LIBRARIES				
434,518,956	22,462,330	281,418,393	299,470,373	63,844,267	852,712,198	299,009,527	1,608,703,121

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 107 university library members.

Category	High	Median	Low
1. Professional Staff as percent of Total Staff	38	25	18
2. Nonprofessional Staff as percent of Total Staff	73	51	14
3. Student Assistant Staff as percent of Total Staff	59	22	3
4. Ratio of Professional Staff to Non-professional Staff (excluding student assistants)	1.9:1	0.5:1	0.3:1
5. Ratio of Items Loaned to Items Borrowed	14.9:1	2.1:1	0.6:1
6. Serials Expenditures as percent of Materials Expenditures	76	59	33
7. Materials Expenditures as percent of Total Operating Expenditures	47	34	24
8. Contract Binding as percent of Total Operating Expenditures	3.3	1.5	0.6
9. Salary and Wage Expenditures as percent of Total Operating Expenditures	67	52	40
10. Other Operating Expenditures as percent of Total Operating Expenditures	27	13	4
11. Unit cost of monographs (per volume)	61.46	35.72	14.84
12. Unit cost of serials (per title)	211.08	115.05	63.86

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986 Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
ALABAMA	74	42	742	14,487	2,679	1,765	1,338
ALBERTA	190	55	1,760	25,192	3,376	2,783	1,068
ARIZONA	325	89	1,357	24,216	8,793	3,755	4,230
ARIZONA STATE	118	48	1,289	26,886	16,082	3,542	7,516
BOSTON	145	45	902	20,705	7,943	6,124	3,719
BRIGHAM YOUNG	107	36	1,261	22,470	7,204	1,749	1,218
BRITISH COLUMBIA	184	83	1,907	20,889	4,487	3,143	916
BROWN	156	33	498	5,507	384	1,559	87
CALIFORNIA, BERKELEY	727	118	1,471	28,632	3,423	8,402	879
CALIFORNIA, DAVIS	228	54	953	20,846	2,032	5,290	261
CALIFORNIA, IRVINE	99	30	1,022	15,139	0	2,770	0
CALIFORNIA, LOS ANGELES	516	68	1,591	32,982	2,453	8,187	209
CALIFORNIA, RIVERSIDE	110	28	448	6,554	1,419	648	112
CALIFORNIA, SAN DIEGO	200	45	945	15,213	1,376	2,459	97
CALIFORNIA, SANTA BARBARA	168	57	903	16,853	1,026	1,677	425
CASE WESTERN RESERVE	149	55	496	5,734	2,523	3,245	2,064
CHICAGO	318	64	1,177	8,523	1,744	5,355	1,696
CINCINNATI +	201	88	1,048	20,568	10,665	3,577	2,733
COLORADO	220	40	934	20,991	2,334	3,344	864
COLORADO STATE	201	38	1,044	17,488	1,704	2,300	850
COLUMBIA	368	54	2,060	14,191	4,740	8,992	1,871
CONNECTICUT	193	66	1,583	17,549	7,003	2,450	3,720
CORNELL	466	90	1,551	17,588	43	5,295	23
DARTMOUTH	27	11	760	4,693	88	1,006	54
DELAWARE	109	33	900	13,289	3,629	1,200	949
DUKE +	131	37	1,340	9,694	329	3,695	276
EMORY	104	43	837	7,727	1,441	2,796	1,306
FLORIDA +	261	66	2,651	28,128	5,155	5,600	2,362
FLORIDA STATE +	250	65	995	18,720	5,106	2,800	2,190
GEORGETOWN	68	21	1,227	9,280	2,490	2,754	2,158
GEORGIA	220	54	1,679	22,347	4,200	3,916	1,972
GEORGIA TECH	97	60	537	10,590	1,181	2,068	598
GUELPH	61	U/A	718	10,935	713	1,056	60
HARVARD +	294	67	1,114	16,945	6,764	9,933	3,268
HAWAII	118	44	1,126	12,937	5,445	2,305	2,095
HOUSTON	65	52	1,222	16,163	12,744	3,591	6,413
HOWARD	63	24	1,174	9,069	1,546	816	774
ILLINOIS, CHICAGO	146	47	1,745	12,540	3,461	4,313	3,610
ILLINOIS, URBANA	646	88	2,050	33,180	3,160	6,148	2,205
INDIANA	264	101	1,382	28,249	5,172	4,652	2,768
IOWA	294	55	1,608	22,609	7,386	5,073	3,948
IOWA STATE	309	87	1,292	22,425	4,175	2,619	2,273
JOHNS HOPKINS	232	60	685	5,714	6,368	2,970	1,628

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

\+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986 Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
KANSAS +	202	63	1,456	22,630	6,090	4,222	4,264
KENT STATE	113	18	745	15,684	5,837	1,110	2,957
KENTUCKY	116	51	1,520	16,427	5,446	2,782	2,144
LAVAL	139	57	1,512	22,420	10,929	3,448	2,359
LOUISIANA STATE +	161	54	1,197	23,000	5,011	3,480	1,745
MCGILL	186	51	1,890	17,485	3,378	3,543	1,230
MCMASTER	89	35	997	11,487	4,078	1,232	890
MANITOBA	90	37	1,306	13,067	7,193	1,671	946
MARYLAND +	364	68	1,308	28,335	9,723	3,540	4,969
MASSACHUSETTS +	213	47	1,281	21,849	6,269	2,769	4,064
MIT	469	85	1,068	9,094	471	4,783	405
MIAMI	96	40	1,447	10,823	2,522	3,262	1,510
MICHIGAN	564	136	2,359	31,575	3,920	10,250	2,566
MICHIGAN STATE +	422	85	1,962	35,249	8,711	4,667	5,024
MINNESOTA	508	85	2,877	28,248	33,975	6,757	6,776
MISSOURI	227	61	902	18,793	4,165	3,257	2,759
NEBRASKA	233	29	1,131	17,993	5,476	2,141	2,019
NEW MEXICO +	156	35	1,138	13,807	11,049	1,717	5,677
NEW YORK	401	151	1,029	18,612	13,079	7,238	9,521
NORTH CAROLINA	244	61	1,951	18,831	4,127	4,586	3,084
NORTH CAROLINA STATE +	239	42	1,431	15,104	5,129	1,494	2,294
NORTHWESTERN	305	69	1,333	13,076	3,361	5,461	1,658
NOTRE DAME	81	21	783	9,420	319	1,876	147
OHIO STATE	538	95	1,930	42,594	10,521	6,296	3,600
OKLAHOMA	118	44	1,370	16,828	6,677	1,792	2,941
OKLAHOMA STATE	143	37	1,012	21,030	5,952	1,944	2,464
OREGON +	138	42	629	14,868	2,820	2,768	1,126
PENNSYLVANIA +	307	117	1,802	17,676	4,199	8,232	1,712
PENNSYLVANIA STATE	354	89	2,516	51,616	15,026	4,135	4,350
PITTSBURGH +	372	76	2,362	18,103	10,261	5,055	4,701
PRINCETON	269	42	668	4,516	0	1,677	0
PURDUE	366	68	1,445	28,977	1,309	3,727	512
QUEEN'S	96	27	994	11,706	3,629	1,655	438
RICE	84	26	454	3,933	112	1,270	0
ROCHESTER	136	50	1,196	6,981	2,049	1,929	1,534
RUTGERS	229	53	1,948	32,369	15,450	4,225	8,093
SASKATCHEWAN	47	54	1,175	13,571	1,629	1,157	355
SOUTH CAROLINA	162	47	1,187	16,040	7,583	3,420	829
SOUTHERN CALIFORNIA	354	69	1,655	20,524	10,560	5,454	8,873
SOUTHERN ILLINOIS	154	23	1,024	18,806	5,354	725	2,928
STANFORD	550	77	1,336	11,835	2,371	5,373	2,333
SUNY-ALBANY +	80	21	629	10,417	1,371	1,790	2,640
SUNY-BUFFALO +	260	65	1,101	19,445	8,032	5,196	3,567

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

\+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986			
				Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
SUNY-STONY BROOK	207	23	1,258	12,509	3,713	2,811	2,201
SYRACUSE +	156	85	930	15,545	5,790	2,306	3,903
TEMPLE +	141	49	1,649	20,640	10,995	3,846	5,207
TENNESSEE	186	49	1,217	19,673	6,313	3,212	3,135
TEXAS +	574	75	1,873	40,063	7,680	8,664	2,884
TEXAS A&M	379	72	2,261	34,654	4,325	5,178	1,939
TORONTO	338	70	2,760	35,599	15,927	5,794	3,402
TULANE +	50	43	885	8,228	2,270	2,792	536
UTAH	225	60	924	15,451	9,160	3,194	1,110
VANDERBILT +	196	38	1,435	8,064	840	2,986	711
VIRGINIA	205	44	961	16,092	5,176	5,171	3,905
VPI & SU +	220	53	1,507	21,392	3,585	3,452	2,960
WASHINGTON	392	62	1,741	26,864	6,438	6,570	2,041
WASHINGTON STATE	149	40	739	14,992	1,492	2,043	626
WASHINGTON U.-ST. LOUIS +	104	51	589	7,441	3,206	2,822	1,505
WATERLOO	110	48	781	12,656	8,553	3,440	393
WAYNE STATE	110	54	1,264	14,527	15,850	4,769	6,010
WESTERN ONTARIO	111	31	1,434	15,715	3,233	2,292	186
WISCONSIN	684	120	2,123	36,437	6,931	9,083	4,115
YALE +	281	54	1,549	10,354	457	5,189	336
YORK	58	55	1,168	20,281	14,813	1,783	1,455

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

+ - See footnotes

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the seventeen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library (107)
Table 2 - Volumes Added (Gross) (107)
Table 3 - Current Serials (Total) (107)
Table 4 - Microform Holdings (Total) (107)
Table 5 - Materials Expenditures (107)
Table 6 - Salaries & Wages Expenditures (107)
Table 7 - Other Operating Expenditures (107)
Table 8 - Total Operating Expenditures (107)
Table 9 - Monographs Purchased (Volumes) (78)
Table 10 - Expenditures For Monographs (104)
Table 11 - Serials Purchased (Titles) (69)
Table 12 - Expenditures for Serials (106)
Table 13 - Total Items Loaned (107)
Table 14 - Total Items Borrowed (107)
Table 15 - Professional Staff (FTE) (107)
Table 16 - Nonprofessional Staff (FTE) (107)
Table 17 - Total Staff (FTE) (107)

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ALABAMA	75	96	76	86	101	105	73	104	76	95	30	88	101	91	77	105	100
ALBERTA	30	36	60	42	55	20	36	27	35	56	23	31	9	9	37	10	23
ARIZONA	23	25	32	14	16	31	58	29	8	36	13	13	12	49	27	27	24
ARIZONA STATE	42	13	23	33	23	41	27	31	U/A	10	U/A	22	22	65	29	20	27
BOSTON	84	67	28	41	61	63	66	61	52	77	28	56	102	42	59	49	51
BRIGHAM YOUNG	61	52	70	79	58	66	76	64	22	24	60	94	84	10	33	107	38
BRITISH COLUMBIA	32	27	46	99	36	19	63	26	10	12	29	51	43	22	26	14	20
BROWN	54	64	89	94	86	68	14	58	21	38	52	97	88	86	52	87	65
CALIFORNIA, BERKELEY	4	3	2	7	6	2	10	3	U/A	6	U/A	2	11	3	5	9	4
CALIFORNIA, DAVIS	50	38	14	37	21	22	17	19	9	23	3	14	17	48	56	31	40
CALIFORNIA, IRVINE	101	69	84	87	66	44	48	51	47	70	43	58	62	38	77	77	82
CALIFORNIA, LOS ANGELES	7	2	3	1	4	3	2	2	U/A	2	U/A	15	5	31	2	7	5
CALIFORNIA, RIVERSIDE	99	49	96	89	99	80	80	88	33	57	57	100	86	35	106	93	101
CALIFORNIA, SAN DIEGO	65	55	31	85	53	30	37	34	23	45	25	60	47	37	41	37	35
CALIFORNIA, SANTA BARBARA	64	60	45	19	57	39	64	43	28	21	53	86	93	27	64	49	62

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CASE WESTERN RESERVE	95	106	97	105	96	95	85	102	77	103	58	76	16	41	64	101	102
CHICAGO	11	19	13	82	37	34	6	23	13	30	U/A	28	15	47	47	19	31
CINCINNATI	87	76	64	58	43	43	44	45	U/A	40	U/A	37	30	26	46	54	46
COLORADO	51	86	92	93	75	64	92	74	53	89	50	65	51	36	84	91	85
COLORADO STATE	107	99	101	107	95	103	46	96	60	80	68	102	59	19	102	102	106
COLUMBIA	8	11	7	12	9	7	4	6	U/A	7	2	8	49	75	6	6	6
CONNECTICUT	53	39	54	52	60	47	59	52	U/A	U/A	U/A	72	35	25	59	88	72
CORNELL	12	10	8	5	14	13	11	13	U/A	U/A	U/A	U/A	37	11	6	13	13
DARTMOUTH	76	59	59	61	92	93	72	94	U/A	85	32	75	76	59	102	86	95
DELAWARE	66	65	43	72	44	96	67	76	U/A	18	U/A	87	81	97	71	72	80
DUKE	19	28	27	88	26	37	34	33	18	22	U/A	29	27	15	30	36	40
EMORY	70	73	80	75	41	58	31	48	U/A	33	U/A	73	42	77	63	51	60
FLORIDA	34	20	30	43	27	26	61	28	15	39	12	32	14	68	24	34	22
FLORIDA STATE	77	74	73	24	59	94	99	87	U/A	46	U/A	55	29	66	74	88	68
GEORGETOWN	83	58	47	68	68	45	28	44	31	49	20	89	103	98	51	53	49
GEORGIA	36	33	9	11	31	52	45	42	U/A	63	1	21	21	79	45	28	30
GEORGIA TECH	92	92	62	34	105	107	84	107	78	104	44	104	68	104	96	106	107
GUELPH	72	45	106	92	107	101	106	106	43	100	U/A	106	107	100	107	83	104
HARVARD	1	1	1	2	1	1	1	1	U/A	1	U/A	1	13	51	1	1	1
HAWAII	47	37	22	50	84	55	107	73	U/A	71	11	79	71	106	59	91	70
HOUSTON	94	102	61	27	78	100	83	95	59	84	22	62	94	28	91	98	98
HOWARD	82	75	25	28	30	49	43	39	16	47	9	19	106	107	42	63	58
ILLINOIS, CHICAGO	93	50	71	74	64	50	57	57	30	42	U/A	71	20	6	47	35	45
ILLINOIS, URBANA	3	4	4	22	12	14	21	14	2	11	U/A	10	2	1	10	10	11
INDIANA	18	21	37	81	25	28	69	30	19	29	14	39	8	18	21	22	16

U/A - Unavailable

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
IOWA	29	24	41	25	29	51	98	50	14	16	16	46	7	45	37	79	52
IOWA STATE	74	68	53	60	81	87	100	90	58	78	49	67	39	82	96	85	87
KANSAS	35	47	35	62	39	54	40	47	24	26	19	48	18	5	34	63	44
KENT STATE	85	107	107	100	106	82	47	91	55	101	69	105	79	63	99	96	96
KENTUCKY	56	89	66	56	76	77	93	83	75	79	36	54	50	24	56	69	59
LAVAL	86	66	91	101	89	32	74	53	45	88	64	95	70	30	53	30	54
LOUISIANA STATE	43	53	44	64	54	72	90	70	36	50	24	43	83	69	64	71	50
MCGILL	40	34	75	98	34	27	95	37	12	27	48	70	31	64	43	25	39
MCMASTER	104	93	104	106	62	78	105	82	42	37	65	68	87	55	104	54	91
MANITOBA	98	103	99	96	104	61	82	86	73	99	61	91	78	84	71	44	74
MARYLAND	60	41	42	13	33	35	51	36	39	41	18	30	60	102	32	43	32
MASSACHUSETTS	45	40	82	77	38	53	96	55	17	43	45	64	64	67	74	69	77
MIT	55	71	49	78	82	48	39	56	67	86	63	78	63	105	34	47	57
MIAMI	89	80	87	97	63	69	60	65	38	76	U/A	36	46	17	47	67	66
MICHIGAN	5	12	6	16	5	9	12	9	U/A	U/A	5	4	40	23	11	8	8
MICHIGAN STATE	24	15	26	21	48	38	26	38	20	32	39	52	67	80	43	59	35
MINNESOTA	15	26	17	40	11	10	8	10	U/A	28	6	7	1	21	14	33	17
MISSOURI	41	85	78	4	91	86	55	81	54	81	51	85	25	57	74	63	69
NEBRASKA	59	72	55	57	83	97	87	97	41	92	U/A	50	75	72	82	79	86
NEW YORK	27	42	33	46	28	23	16	21	25	52	15	17	82	62	22	32	28
NORTH CAROLINA	20	14	16	35	17	21	29	20	11	13	U/A	24	26	90	18	22	21
NORTH CAROLINA STATE	105	87	90	31	67	79	53	68	64	82	55	69	24	94	96	68	78
NORTHWESTERN	22	29	21	66	50	29	42	35	U/A	55	U/A	41	55	14	19	47	29
NOTRE DAME	63	46	88	90	79	98	103	100	U/A	54	U/A	93	36	60	99	61	93
OHIO STATE	16	23	24	29	15	17	19	16	4	20	10	9	23	13	16	21	19

U/A - Unavailable

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
OKLAHOMA	49	95	77	36	80	102	88	101	70	74	31	82	33	7	88	100	92
OKLAHOMA STATE	97	105	102	102	102	104	68	103	74	96	66	92	77	85	91	104	94
OREGON	68	97	51	71	73	91	71	85	34	67	35	84	72	54	84	97	83
PENNSYLVANIA	21	31	34	91	35	24	22	24	U/A	35	U/A	25	58	8	23	39	26
PENNSYLVANIA STATE	28	32	29	30	22	15	15	15	U/A	15	8	16	41	20	20	10	18
PITTSBURGH	33	30	56	55	46	42	41	41	U/A	44	U/A	49	65	53	40	38	34
PRINCETON	17	17	20	53	10	18	56	18	3	4	U/A	44	98	76	25	17	25
PURDUE	67	44	52	69	69	67	78	69	72	83	26	38	74	61	69	44	55
QUEEN'S	79	94	86	76	49	71	101	71	48	59	41	80	105	70	94	41	83
RICE	100	91	98	67	100	106	91	105	U/A	75	59	103	66	103	99	103	105
ROCHESTER	37	79	94	51	52	84	50	63	69	65	56	42	32	46	64	75	70
RUTGERS	25	16	36	18	7	8	13	8	5	8	U/A	6	56	16	16	15	12
SASKATCHEWAN	102	81	105	65	88	89	104	98	71	91	67	59	95	32	105	60	99
SOUTH CAROLINA	44	43	74	49	87	88	97	93	U/A	87	U/A	66	73	71	68	75	90
SOUTHERN CALIFORNIA	38	56	19	39	20	25	30	22	26	48	47	23	99	92	3	40	10
SOUTHERN ILLINOIS	58	78	48	48	93	73	79	84	68	98	U/A	61	6	50	77	94	63
STANFORD	9	7	12	23	3	4	5	4	U/A	3	U/A	3	54	52	8	5	7
SUNY-ALBANY	106	98	85	47	97	90	89	99	56	97	34	90	44	58	84	99	103
SUNY-BUFFALO	39	63	38	17	51	40	33	40	50	73	21	34	19	39	31	72	47
SUNY-STONY BROOK	90	83	100	38	70	56	94	67	46	72	U/A	77	38	78	80	62	79
SYRACUSE	46	100	53	20	72	83	35	66	66	66	U/A	53	100	83	55	44	53
TEMPLE	57	84	81	84	74	74	81	77	65	69	46	81	90	74	53	74	76
TENNESSEE	69	90	57	45	90	62	70	75	61	93	37	63	97	88	71	51	64
TEXAS	6	9	5	8	18	12	9	12	U/A	9	U/A	20	61	44	13	4	9
TEXAS A&M	71	54	79	15	45	65	52	60	40	64	40	35	10	2	58	42	42

U/A - Unavailable

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
TORONTO	10	5	18	95	8	5	65	7	U/A	5	7	11	48	43	9	2	3
TULANE	78	82	83	70	77	99	38	80	57	60	U/A	83	85	34	83	88	97
UTAH	80	57	95	54	71	92	54	78	7	19	62	101	80	56	84	79	74
VANDERBILT	73	61	65	80	47	59	32	49	U/A	58	U/A	47	53	40	34	58	48
VIRGINIA	26	18	39	9	24	33	18	25	6	17	17	33	34	33	28	29	33
VPI & SU	88	88	72	6	56	85	77	72	51	94	42	26	69	99	69	77	80
WASHINGTON	14	6	11	3	13	16	23	17	37	51	U/A	5	3	87	15	16	15
WASHINGTON STATE	96	101	50	44	94	81	49	79	62	90	U/A	74	52	93	91	79	88
WASHINGTON U.-ST. LOUIS	52	77	69	73	42	76	25	54	44	68	27	27	45	29	59	63	72
WATERLOO	91	48	93	104	98	75	102	92	27	62	54	98	104	89	94	54	89
WAYNE STATE	48	62	40	63	40	60	20	46	49	31	33	40	28	101	47	94	56
WESTERN ONTARIO	62	35	68	59	65	46	75	59	32	53	U/A	57	91	96	80	24	43
WISCONSIN	13	22	15	26	19	11	7	11	U/A	25	U/A	18	4	12	12	18	14
YALE	2	8	10	32	2	6	3	5	1	14	4	12	92	73	4	3	2
YORK	81	70	67	103	85	57	62	62	U/A	61	U/A	96	96	95	88	57	67
NEW MEXICO	103	104	103	10	103	70	86	89	63	102	U/A	99	89	81	90	84	61
JOHNS HOPKINS	31	51	58	83	32	36	24	32	29	34	38	45	57	4	39	26	37

U/A - Unavailable

RANK ORDER TABLES OF UNIVERSITY LIBRARIES

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 9,000 and over
2- 8,000-8,999
3- 7,000-7,999
4- 6,000-6,999
5- 5,000-5,999
6- 4,000-4,999
7- 3,000-3,999
8- 2,000-2,999
9- 1,000-1,999

Gp	Rank	Institution	Value
1	1	HARVARD	11,496,906
2	2	YALE	8,538,156
3	3	ILLINOIS, URBANA	7,377,051
	4	CALIFORNIA, BERKELEY	7,190,821
4	5	MICHIGAN	6,133,171
5	6	TEXAS	5,888,776
	7	CALIFORNIA, LOS ANGELES	5,812,163
	8	COLUMBIA	5,740,832
	9	STANFORD	5,740,162
	10	TORONTO	5,698,275
6	11	CHICAGO	4,970,720
	12	CORNELL	4,924,421
	13	WISCONSIN	4,804,386
	14	WASHINGTON	4,764,341
	15	MINNESOTA	4,473,262
	16	OHIO STATE	4,254,266
	17	PRINCETON	4,070,827
	18	INDIANA	4,011,675
7	19	DUKE	3,668,935
	20	NORTH CAROLINA	3,520,273
	21	PENNSYLVANIA	3,499,741
	22	NORTHWESTERN	3,346,817
	23	ARIZONA	3,329,146
	24	MICHIGAN STATE	3,301,739
	25	RUTGERS	3,065,533
	26	VIRGINIA	3,003,066
8	27	NEW YORK	2,988,453
	28	PENNSYLVANIA STATE	2,965,695
	29	IOWA	2,930,932
	30	ALBERTA	2,761,695
	31	JOHNS HOPKINS	2,728,347
	32	BRITISH COLUMBIA	2,719,586
	33	PITTSBURGH	2,713,324
	34	FLORIDA	2,701,857
	35	KANSAS	2,688,482
	36	GEORGIA	2,688,433
	37	ROCHESTER	2,590,720
	38	SOUTHERN CALIFORNIA	2,533,850
	39	SUNY-BUFFALO	2,492,502
	40	MCGILL	2,441,494
	41	MISSOURI	2,410,569
	42	ARIZONA STATE	2,340,657
	43	LOUISIANA STATE	2,327,869
	44	SOUTH CAROLINA	2,292,721
	45	MASSACHUSETTS	2,275,822
	46	SYRACUSE	2,247,176
	47	HAWAII	2,244,118
	48	WAYNE STATE	2,233,540
	49	OKLAHOMA	2,230,257
	50	CALIFORNIA, DAVIS	2,227,255
	51	COLORADO	2,185,565
	52	WASHINGTON U.-ST. LOUIS	2,169,792
	53	CONNECTICUT	2,146,993
	54	BROWN	2,123,050
	55	MIT	2,103,392
	56	KENTUCKY	2,086,428
9	57	TEMPLE	1,999,792
	58	SOUTHERN ILLINOIS	1,997,009
	59	NEBRASKA	1,939,732
	60	MARYLAND	1,928,272
	61	BRIGHAM YOUNG	1,926,477
	62	WESTERN ONTARIO	1,872,247
	63	NOTRE DAME	1,869,717
	64	CALIFORNIA, SANTA BARBARA	1,862,167
	65	CALIFORNIA, SAN DIEGO	1,846,761
	66	DELAWARE	1,837,158
	67	PURDUE	1,814,065
	68	OREGON	1,804,926
	69	TENNESSEE	1,792,425
	70	EMORY	1,786,394
	71	TEXAS A&M	1,786,251
	72	GUELPH	1,779,183
	73	VANDERBILT	1,761,379
	74	IOWA STATE	1,752,409
	75	ALABAMA	1,732,058
	76	DARTMOUTH	1,722,398
	77	FLORIDA STATE	1,718,271
	78	TULANE	1,715,893
	79	QUEEN'S	1,712,140
	80	UTAH	1,705,473
	81	YORK	1,697,238
	82	HOWARD	1,671,119
	83	GEORGETOWN	1,669,036
	84	BOSTON	1,665,753
	85	KENT STATE	1,659,396
	86	LAVAL	1,653,067
	87	CINCINNATI	1,634,312
	88	VPI & SU	1,632,883
	89	MIAMI	1,615,442
	90	SUNY-STONY BROOK	1,614,088
	91	WATERLOO	1,578,378
	92	GEORGIA TECH	1,576,452
	93	ILLINOIS, CHICAGO	1,563,615
	94	HOUSTON	1,562,001
	95	CASE WESTERN RESERVE	1,534,807
	96	WASHINGTON STATE	1,527,932
	97	OKLAHOMA STATE	1,483,703
	98	MANITOBA	1,461,076
	99	CALIFORNIA, RIVERSIDE	1,369,083
	100	RICE	1,368,323
	101	CALIFORNIA, IRVINE	1,361,756
	102	SASKATCHEWAN	1,360,380
	103	NEW MEXICO	1,299,782
	104	MCMASTER	1,297,180
	105	NORTH CAROLINA STATE	1,239,528
	106	SUNY-ALBANY	1,225,304
	107	COLORADO STATE	1,140,108

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 250,000 and over
2- 220,000-249,999
3- 190,000-219,999
4- 160,000-189,999
5- 130,000-159,999
6- 100,000-129,999
7- 70,000- 99,999
8- 40,000- 69,999
9- under 39,999

Gp	Rank	Institution	Value
1	1	HARVARD	313,922
3	2	CALIFORNIA, LOS ANGELES	207,140
	3	CALIFORNIA, BERKELEY	195,012
4	4	ILLINOIS, URBANA	189,222
	5	TORONTO	166,792
	6	WASHINGTON	162,688
	7	STANFORD	161,451
5	8	YALE	156,767
	9	TEXAS	141,903
	10	CORNELL	141,067
	11	COLUMBIA	140,135
	12	MICHIGAN	130,358
6	13	ARIZONA STATE	126,586
	14	NORTH CAROLINA	121,680
	15	MICHIGAN STATE	116,564
	16	RUTGERS	116,017
	17	PRINCETON	114,716
	18	VIRGINIA	112,535
	19	CHICAGO	111,663
	20	FLORIDA	105,778
	21	INDIANA	103,316
	22	WISCONSIN	100,070
7	23	OHIO STATE	96,629
	24	IOWA	96,134
	25	ARIZONA	96,117
	26	MINNESOTA	94,262
	27	BRITISH COLUMBIA	92,451
	28	DUKE	90,060
	29	NORTHWESTERN	88,466
	30	PITTSBURGH	87,744
	31	PENNSYLVANIA	85,540
	32	PENNSYLVANIA STATE	84,004
	33	GEORGIA	83,832
	34	MCGILL	83,300
	35	WESTERN ONTARIO	81,640
	36	ALBERTA	81,386
	37	HAWAII	81,131
	38	CALIFORNIA, DAVIS	79,564
	39	CONNECTICUT	78,955
	40	MASSACHUSETTS	78,274
	41	MARYLAND	76,396
	42	NEW YORK	73,914
	43	SOUTH CAROLINA	73,748
	44	PURDUE	73,415
	45	GUELPH	72,945
	46	NOTRE DAME	72,403
	47	KANSAS	71,930
	48	WATERLOO	71,170
8	49	CALIFORNIA, RIVERSIDE	67,960
	50	ILLINOIS, CHICAGO	67,294
	51	JOHNS HOPKINS	67,083
	52	BRIGHAM YOUNG	65,964
	53	LOUISIANA STATE	64,854
	54	TEXAS A&M	64,600
	55	CALIFORNIA, SAN DIEGO	63,674
	56	SOUTHERN CALIFORNIA	61,762
	57	UTAH	61,734
	58	GEORGETOWN	60,872
	59	DARTMOUTH	60,432
	60	CALIFORNIA, SANTA BARBARA	60,302
	61	VANDERBILT	59,798
	62	WAYNE STATE	59,494
	63	SUNY-BUFFALO	59,329
	64	BROWN	58,627
	65	DELAWARE	58,243
	66	LAVAL	58,103
	67	BOSTON	57,964
	68	IOWA STATE	55,534
	69	CALIFORNIA, IRVINE	55,525
	70	YORK	55,144
	71	MIT	54,991
	72	NEBRASKA	54,887
	73	EMORY	54,807
	74	FLORIDA STATE	54,147
	75	HOWARD	53,973
	76	CINCINNATI	53,920
	77	WASHINGTON U.-ST. LOUIS	53,136
	78	SOUTHERN ILLINOIS	52,394
	79	ROCHESTER	51,153
	80	MIAMI	50,961
	81	SASKATCHEWAN	50,674
	82	TULANE	49,791
	83	SUNY-STONY BROOK	48,486
	84	TEMPLE	48,025
	85	MISSOURI	47,505
	86	COLORADO	46,693
	87	NORTH CAROLINA STATE	45,927
	88	VPI & SU	45,907
	89	KENTUCKY	45,738
	90	TENNESSEE	45,152
	91	RICE	45,110
	92	GEORGIA TECH	44,926
	93	MCMASTER	43,816
	94	QUEEN'S	40,553
	95	OKLAHOMA	40,382
	96	ALABAMA	40,076
9	97	OREGON	39,362
	98	SUNY-ALBANY	38,509
	99	COLORADO STATE	37,736
	100	SYRACUSE	37,305
	101	WASHINGTON STATE	36,280
	102	HOUSTON	35,985
	103	MANITOBA	34,071
	104	NEW MEXICO	30,204
	105	OKLAHOMA STATE	28,810
	106	CASE WESTERN RESERVE	28,715
	107	KENT STATE	27,701

RANK ORDER TABLE 3: CURRENT SERIALS (TOTAL)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 90,000 and over
2- 80,000-89,999
3- 70,000-79,999
4- 60,000-69,999
5- 50,000-59,999
6- 40,000-49,999
7- 30,000-39,999
8- 20,000-29,999
9- 10,000-19,999
10- under 10,000

Gp	Rank	Institution	Value
1	1	HARVARD +	102,000
	2	CALIFORNIA, BERKELEY +	98,861
	3	CALIFORNIA, LOS ANGELES +	94,757
	4	ILLINOIS, URBANA +	92,530
3	5	TEXAS +	79,392
4	6	MICHIGAN +	67,530
5	7	COLUMBIA +	58,516
	8	CORNELL +	58,429
	9	GEORGIA +	56,624
	10	YALE	56,046
	11	WASHINGTON +	55,080
	12	STANFORD +	54,781
	13	CHICAGO +	54,137
	14	CALIFORNIA, DAVIS +	51,162
	15	WISCONSIN	50,913
6	16	NORTH CAROLINA +	42,094
7	17	MINNESOTA +	39,246
	18	TORONTO +	37,426
	19	SOUTHERN CALIFORNIA +	37,124
	20	PRINCETON +	33,836
	21	NORTHWESTERN +	33,226
	22	HAWAII	32,980
	23	ARIZONA STATE +	32,792
	24	OHIO STATE +	31,154
8	25	HOWARD	29,682
	26	MICHIGAN STATE +	29,556
	27	DUKE	29,484
	28	BOSTON	29,375
	29	PENNSYLVANIA STATE +	29,324
	30	FLORIDA	29,299
	31	CALIFORNIA, SAN DIEGO +	29,237
	32	ARIZONA	28,777
	33	NEW YORK +	28,466
	34	PENNSYLVANIA +	28,140
	35	KANSAS	27,533
	36	RUTGERS	27,482
	37	INDIANA	26,684
	38	SUNY-BUFFALO +	24,110
	39	VIRGINIA	23,908
	40	WAYNE STATE +	23,796
	41	IOWA +	22,877
	42	MARYLAND +	22,747
	43	DELAWARE	22,543
	44	LOUISIANA STATE	22,267
	45	CALIFORNIA, SANTA BARBARA +	21,784
	46	BRITISH COLUMBIA	21,655
	47	GEORGETOWN	21,607
	48	SOUTHERN ILLINOIS	21,439
	49	MIT +	21,402
	50	WASHINGTON STATE +	21,240
	51	OREGON	21,081
	52	PURDUE	21,056
	53	SYRACUSE	20,994
	54	CONNECTICUT +	20,871
	55	NEBRASKA +	20,870
	56	PITTSBURGH +	20,628
	57	TENNESSEE +	20,598
	58	JOHNS HOPKINS +	20,571
	59	DARTMOUTH	20,379
	60	ALBERTA +	20,278
9	61	HOUSTON	19,942
	62	GEORGIA TECH +	19,796
	63	IOWA STATE +	19,793
	64	CINCINNATI	19,789
	65	VANDERBILT	18,862
	66	KENTUCKY	18,688
	67	YORK +	18,637
	68	WESTERN ONTARIO +	18,534
	69	WASHINGTON U.-ST. LOUIS	18,372
	70	BRIGHAM YOUNG +	18,291
	71	ILLINOIS, CHICAGO +	18,204
	72	VPI & SU +	18,182
	73	FLORIDA STATE	18,018
	74	SOUTH CAROLINA +	17,782
	75	MCGILL	17,509
	76	ALABAMA	17,435
	77	OKLAHOMA +	17,417
	78	MISSOURI	17,065
	79	TEXAS A&M	16,868
	80	EMORY	16,867
	81	TEMPLE	16,842
	82	MASSACHUSETTS	16,670
	83	TULANE	16,496
	84	CALIFORNIA, IRVINE	16,413
	85	SUNY-ALBANY	16,277
	86	QUEEN'S	15,599
	87	MIAMI	15,570
	88	NOTRE DAME	15,559
	89	BROWN +	15,075
	90	NORTH CAROLINA STATE	15,053
	91	LAVAL +	14,558
	92	COLORADO	14,262
	93	WATERLOO +	14,113
	94	ROCHESTER +	13,684
	95	UTAH	13,567
	96	CALIFORNIA, RIVERSIDE +	12,797
	97	CASE WESTERN RESERVE	12,279
	98	RICE +	12,186
	99	MANITOBA	12,138
	100	SUNY-STONY BROOK	11,803
	101	COLORADO STATE	11,797
	102	OKLAHOMA STATE	10,911
	103	NEW MEXICO	10,722
	104	MCMASTER	10,652
10	105	SASKATCHEWAN	9,689
	106	GUELPH	9,595
	107	KENT STATE	7,317

+ - Includes government document serials

RANK ORDER TABLE 4: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
7- 1,000-1,499
8- under 1,000

Gp	Rank	Institution	Value
1	1	CALIFORNIA, LOS ANGELES	5,137,087
	2	HARVARD	4,902,955
	3	WASHINGTON	4,890,148
	4	MISSOURI	4,559,542
	5	CORNELL	4,530,771
	6	VPI & SU	4,115,389
	7	CALIFORNIA, BERKELEY	4,051,125
	8	TEXAS	4,020,195
2	9	VIRGINIA	3,923,464
	10	NEW MEXICO	3,844,403
	11	GEORGIA	3,797,738
	12	COLUMBIA	3,694,261
	13	MARYLAND	3,630,297
	14	ARIZONA	3,622,457
3	15	TEXAS A&M	3,478,815
	16	MICHIGAN	3,472,083
	17	SUNY-BUFFALO	3,461,883
	18	RUTGERS	3,362,830
	19	CALIFORNIA, SANTA BARBARA	3,342,333
	20	SYRACUSE	3,308,306
	21	MICHIGAN STATE	3,256,021
	22	ILLINOIS, URBANA	3,198,912
	23	STANFORD	3,104,714
	24	FLORIDA STATE	3,103,577
	25	IOWA	3,020,711
	26	WISCONSIN	3,018,515
	27	HOUSTON	3,001,026
4	28	HOWARD	2,987,742
	29	OHIO STATE	2,971,011
	30	PENNSYLVANIA STATE	2,925,368
	31	NORTH CAROLINA STATE	2,893,815
	32	YALE	2,861,143
	33	ARIZONA STATE	2,827,350
	34	GEORGIA TECH	2,783,380
	35	NORTH CAROLINA	2,731,236
	36	OKLAHOMA	2,657,805
	37	CALIFORNIA, DAVIS	2,656,808
	38	SUNY-STONY BROOK	2,633,725
	39	SOUTHERN CALIFORNIA	2,627,754
	40	MINNESOTA	2,616,670
	41	BOSTON	2,587,487
	42	ALBERTA	2,576,334
5	43	FLORIDA	2,478,106
	44	WASHINGTON STATE	2,457,737
	45	TENNESSEE	2,446,158
	46	NEW YORK	2,396,661
	47	SUNY-ALBANY	2,383,431
	48	SOUTHERN ILLINOIS	2,372,434
	49	SOUTH CAROLINA	2,368,227
	50	HAWAII	2,363,009
	51	ROCHESTER	2,360,899
	52	CONNECTICUT	2,352,897
	53	PRINCETON	2,343,650
	54	UTAH	2,274,245
	55	PITTSBURGH	2,258,997
	56	KENTUCKY	2,221,341
	57	NEBRASKA	2,206,608
	58	CINCINNATI	2,105,497
	59	WESTERN ONTARIO	2,080,423
	60	IOWA STATE	2,048,486
	61	DARTMOUTH	2,014,484
6	62	KANSAS	1,998,985
	63	WAYNE STATE	1,974,435
	64	LOUISIANA STATE	1,943,977
	65	SASKATCHEWAN	1,896,380
	66	NORTHWESTERN	1,855,577
	67	RICE	1,790,416
	68	GEORGETOWN	1,735,808
	69	PURDUE	1,733,692
	70	TULANE	1,722,485
	71	OREGON	1,697,564
	72	DELAWARE	1,689,080
	73	WASHINGTON U.-ST. LOUIS	1,683,373
	74	ILLINOIS, CHICAGO	1,662,162
	75	EMORY	1,656,555
	76	QUEEN'S	1,640,130
	77	MASSACHUSETTS	1,636,005
	78	MIT	1,618,554
	79	BRIGHAM YOUNG	1,544,426
	80	VANDERBILT	1,529,198
7	81	INDIANA	1,466,554
	82	CHICAGO	1,454,193
	83	JOHNS HOPKINS	1,449,195
	84	TEMPLE	1,392,179
	85	CALIFORNIA, SAN DIEGO	1,360,279
	86	ALABAMA	1,293,881
	87	CALIFORNIA, IRVINE	1,282,028
	88	DUKE	1,279,898
	89	CALIFORNIA, RIVERSIDE	1,159,401
	90	NOTRE DAME	1,109,945
	91	PENNSYLVANIA	1,105,575
	92	GUELPH	1,090,532
	93	COLORADO	1,073,961
	94	BROWN	1,062,880
	95	TORONTO	1,051,744
8	96	MANITOBA	990,872
	97	MIAMI	979,247
	98	MCGILL	920,889
	99	BRITISH COLUMBIA	903,056
	100	KENT STATE	799,454
	101	LAVAL	749,109
	102	OKLAHOMA STATE	730,908
	103	YORK	725,906
	104	WATERLOO	688,938
	105	CASE WESTERN RESERVE	659,322
	106	MCMASTER	394,172
	107	COLORADO STATE	172,234

RANK ORDER TABLE 5: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 5,500 and over
2- 5,000-5,499
3- 4,500-4,999
4- 4,000-4,499
5- 3,500-3,999
6- 3,000-3,499
7- 2,500-2,999
8- 2,000-2,499
9- 1,500-1,999
10- 1,000-1,499

Gp	Rank	Institution	Value
1	1	HARVARD	9,968,054
	2	YALE	8,816,900
	3	STANFORD	7,294,540
	4	CALIFORNIA, LOS ANGELES	7,143,307
	5	MICHIGAN	6,838,655
	6	CALIFORNIA, BERKELEY	6,665,477
	7	RUTGERS	6,399,863
	8	TORONTO	5,984,240
	9	COLUMBIA	5,651,091
2	10	PRINCETON	5,453,666
	11	MINNESOTA	5,319,881
	12	ILLINOIS, URBANA	5,244,029
3	13	WASHINGTON	4,920,689
	14	CORNELL	4,905,819
	15	OHIO STATE	4,893,616
	16	ARIZONA	4,861,673
	17	NORTH CAROLINA	4,845,776
	18	TEXAS	4,842,279
	19	WISCONSIN	4,780,562
	20	SOUTHERN CALIFORNIA	4,769,547
	21	CALIFORNIA, DAVIS	4,768,676
	22	PENNSYLVANIA STATE	4,761,949
	23	ARIZONA STATE	4,707,750
	24	VIRGINIA	4,694,633
4	25	INDIANA	4,496,484
	26	DUKE	4,362,121
	27	FLORIDA	4,361,661
	28	NEW YORK	4,357,534
	29	IOWA	4,327,897
	30	HOWARD	4,114,415
	31	GEORGIA	4,074,606
	32	JOHNS HOPKINS	4,032,527
	33	MARYLAND	4,030,549
5	34	MCGILL	3,973,884
	35	PENNSYLVANIA	3,962,283
	36	BRITISH COLUMBIA	3,944,491
	37	CHICAGO	3,926,670
	38	MASSACHUSETTS	3,906,181
	39	KANSAS	3,739,089
	40	WAYNE STATE	3,634,454
	41	EMORY	3,605,247
	42	WASHINGTON U.-ST. LOUIS	3,580,315
	43	CINCINNATI	3,515,282
	44	DELAWARE	3,508,041
6	45	TEXAS A&M	3,470,284
	46	PITTSBURGH	3,461,943
	47	VANDERBILT	3,445,730
	48	MICHIGAN STATE	3,435,723
	49	QUEEN'S	3,435,018
	50	NORTHWESTERN	3,430,831
	51	SUNY-BUFFALO	3,430,707
	52	ROCHESTER	3,407,321
	53	CALIFORNIA, SAN DIEGO	3,372,946
	54	LOUISIANA STATE	3,369,896
	55	ALBERTA	3,367,665
	56	VPI & SU	3,347,560
	57	CALIFORNIA, SANTA BARBARA	3,327,917
	58	BRIGHAM YOUNG	3,290,468
	59	FLORIDA STATE	3,289,710
	60	CONNECTICUT	3,268,212
	61	BOSTON	3,195,096
	62	MCMASTER	3,149,104
	63	MIAMI	3,138,764
	64	ILLINOIS, CHICAGO	3,113,754
	65	WESTERN ONTARIO	3,071,155
	66	CALIFORNIA, IRVINE	3,036,335
	67	NORTH CAROLINA STATE	3,025,434
	68	GEORGETOWN	3,015,402
7	69	PURDUE	2,999,062
	70	SUNY-STONY BROOK	2,960,511
	71	UTAH	2,959,911
	72	SYRACUSE	2,934,672
	73	OREGON	2,934,606
	74	TEMPLE	2,900,000
	75	COLORADO	2,867,358
	76	KENTUCKY	2,842,713
	77	TULANE	2,820,296
	78	HOUSTON	2,796,262
	79	NOTRE DAME	2,717,118
	80	OKLAHOMA	2,707,432
	81	IOWA STATE	2,687,645
	82	MIT	2,676,046
	83	NEBRASKA	2,662,785
	84	HAWAII	2,654,743
	85	YORK	2,627,353
	86	BROWN	2,625,672
	87	SOUTH CAROLINA	2,566,338
	88	SASKATCHEWAN	2,533,744
	89	LAVAL	2,530,583
	90	TENNESSEE	2,529,736
8	91	MISSOURI	2,483,181
	92	DARTMOUTH	2,442,281
	93	SOUTHERN ILLINOIS	2,436,237
	94	WASHINGTON STATE	2,411,986
	95	COLORADO STATE	2,331,803
	96	CASE WESTERN RESERVE	2,329,946
	97	SUNY-ALBANY	2,318,650
	98	WATERLOO	2,300,448
	99	CALIFORNIA, RIVERSIDE	2,284,100
	100	RICE	2,199,949
	101	ALABAMA	2,170,540
	102	OKLAHOMA STATE	2,130,280
	103	NEW MEXICO	2,052,641
9	104	MANITOBA	1,984,813
	105	GEORGIA TECH	1,870,127
	106	KENT STATE	1,753,464
	107	GUELPH	1,621,181

RANK ORDER TABLE 6: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 10,000 and over
2- 9,000-9,999
3- 8,000-8,999
4- 7,000-7,999
5- 6,000-6,999
6- 5,000-5,999
7- 4,000-4,999
8- 3,000-3,999
9- 2,000-2,999
10- under 2,000

Gp	Rank	Institution	Value
1	1	HARVARD	20,464,069
	2	CALIFORNIA, BERKELEY	17,057,457
	3	CALIFORNIA, LOS ANGELES	15,835,845
	4	STANFORD	15,356,872
	5	TORONTO	14,134,438
	6	YALE	12,583,700
	7	COLUMBIA	12,062,874
	8	RUTGERS	11,482,791
	9	MICHIGAN	10,692,717
2	10	MINNESOTA	9,891,282
	11	WISCONSIN	9,754,342
	12	TEXAS	9,435,717
	13	CORNELL	9,364,574
3	14	ILLINOIS, URBANA	8,662,158
	15	PENNSYLVANIA STATE	8,600,913
	16	WASHINGTON	8,486,663
	17	OHIO STATE	8,434,918
	18	PRINCETON	8,037,851
	19	BRITISH COLUMBIA	8,021,372
4	20	ALBERTA	7,954,592
	21	NORTH CAROLINA	7,648,874
	22	CALIFORNIA, DAVIS	7,618,604
	23	NEW YORK	7,593,465
	24	PENNSYLVANIA	7,401,483
	25	SOUTHERN CALIFORNIA	7,313,717
	26	FLORIDA	7,278,472
	27	MCGILL	7,088,585
	28	INDIANA	7,029,966
5	29	NORTHWESTERN	6,744,770
	30	CALIFORNIA, SAN DIEGO	6,686,556
	31	ARIZONA	6,316,183
	32	LAVAL	6,316,175
	33	VIRGINIA	6,302,361
	34	CHICAGO	6,216,666
	35	MARYLAND	6,177,393
	36	JOHNS HOPKINS	6,116,034
	37	DUKE	6,011,531
6	38	MICHIGAN STATE	5,900,132
	39	CALIFORNIA, SANTA BARBARA	5,882,400
	40	SUNY-BUFFALO	5,500,296
	41	ARIZONA STATE	5,442,753
	42	PITTSBURGH	5,435,918
	43	CINCINNATI	5,371,627
	44	CALIFORNIA, IRVINE	5,257,873
	45	GEORGETOWN	5,242,046
	46	WESTERN ONTARIO	5,179,925
	47	CONNECTICUT	5,151,484
	48	MIT	5,097,005
	49	HOWARD	5,079,559
	50	ILLINOIS, CHICAGO	5,044,264
7	51	IOWA	4,994,323
	52	GEORGIA	4,984,249
	53	MASSACHUSETTS	4,982,535
	54	KANSAS	4,848,267
	55	HAWAII	4,626,673
	56	SUNY-STONY BROOK	4,609,996
	57	YORK	4,576,733
	58	EMORY	4,575,568
	59	VANDERBILT	4,558,787
	60	WAYNE STATE	4,456,648
	61	MANITOBA	4,395,271
	62	TENNESSEE	4,280,408
	63	BOSTON	4,253,169
	64	COLORADO	4,235,117
	65	TEXAS A&M	4,234,475
	66	BRIGHAM YOUNG	4,198,258
	67	PURDUE	4,102,210
	68	BROWN	4,020,213
	69	MIAMI	4,019,607
8	70	NEW MEXICO	3,994,963
	71	QUEEN'S	3,926,622
	72	LOUISIANA STATE	3,919,646
	73	SOUTHERN ILLINOIS	3,919,134
	74	TEMPLE	3,915,519
	75	WATERLOO	3,873,289
	76	WASHINGTON U.-ST. LOUIS	3,852,836
	77	KENTUCKY	3,830,300
	78	MCMASTER	3,795,550
	79	NORTH CAROLINA STATE	3,780,692
	80	CALIFORNIA, RIVERSIDE	3,709,164
	81	WASHINGTON STATE	3,707,523
	82	KENT STATE	3,692,134
	83	SYRACUSE	3,678,428
	84	ROCHESTER	3,639,596
	85	VPI & SU	3,628,421
	86	MISSOURI	3,617,335
	87	IOWA STATE	3,491,167
	88	SOUTH CAROLINA	3,449,184
	89	SASKATCHEWAN	3,384,537
	90	SUNY-ALBANY	3,330,450
	91	OREGON	3,262,072
	92	UTAH	3,223,432
	93	DARTMOUTH	3,217,317
	94	FLORIDA STATE	3,094,794
	95	CASE WESTERN RESERVE	3,093,107
	96	DELAWARE	3,093,045
9	97	NEBRASKA	2,998,157
	98	NOTRE DAME	2,959,324
	99	TULANE	2,951,257
	100	HOUSTON	2,893,387
	101	GUELPH	2,872,470
	102	OKLAHOMA	2,788,375
	103	COLORADO STATE	2,724,676
	104	OKLAHOMA STATE	2,620,443
	105	ALABAMA	2,583,464
	106	RICE	2,243,579
10	107	GEORGIA TECH	1,873,275

RANK ORDER TABLE 7: OTHER OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
6- 1,000-1,499
7- 500-999
8- under 500

Gp	Rank	Institution	Value
1	1	HARVARD	5,991,495
	2	CALIFORNIA, LOS ANGELES	4,885,314
	3	YALE	4,035,000
2	4	COLUMBIA	3,638,056
	5	STANFORD	3,612,195
	6	CHICAGO	3,504,231
3	7	WISCONSIN	3,429,082
	8	MINNESOTA	3,190,278
	9	TEXAS	3,133,759
	10	CALIFORNIA, BERKELEY	3,021,716
4	11	CORNELL	2,973,584
	12	MICHIGAN	2,637,782
	13	RUTGERS	2,507,406
5	14	BROWN	2,455,694
	15	PENNSYLVANIA STATE	2,399,193
	16	NEW YORK	2,311,590
	17	CALIFORNIA, DAVIS	2,281,895
	18	VIRGINIA	2,277,790
	19	OHIO STATE	2,210,018
	20	WAYNE STATE	2,207,502
	21	ILLINOIS, URBANA	2,158,012
	22	PENNSYLVANIA	2,110,454
	23	WASHINGTON	2,072,333
	24	JOHNS HOPKINS	2,017,823
	25	WASHINGTON U.-ST. LOUIS	2,016,177
	26	MICHIGAN STATE	2,001,779
	27	ARIZONA STATE	2,001,091
6	28	GEORGETOWN	1,987,691
	29	NORTH CAROLINA	1,969,565
	30	SOUTHERN CALIFORNIA	1,910,440
	31	EMORY	1,843,350
	32	VANDERBILT	1,806,469
	33	SUNY-BUFFALO	1,629,164
	34	DUKE	1,625,875
	35	SYRACUSE	1,605,370
	36	ALBERTA	1,591,204
	37	CALIFORNIA, SAN DIEGO	1,582,147
	38	TULANE	1,552,263
	39	MIT	1,519,608
	40	KANSAS	1,513,009
	41	PITTSBURGH	1,507,852
	42	NORTHWESTERN	1,505,041
	43	HOWARD	1,501,603
7	44	CINCINNATI	1,390,021
	45	GEORGIA	1,266,457
	46	COLORADO STATE	1,264,578
	47	KENT STATE	1,255,330
	48	CALIFORNIA, IRVINE	1,249,457
	49	WASHINGTON STATE	1,235,803
	50	ROCHESTER	1,229,450
	51	MARYLAND	1,228,156
	52	TEXAS A&M	1,223,649
	53	NORTH CAROLINA STATE	1,214,250
	54	UTAH	1,205,015
	55	MISSOURI	1,192,333
	56	PRINCETON	1,171,303
	57	ILLINOIS, CHICAGO	1,130,097
	58	ARIZONA	1,117,367
	59	CONNECTICUT	1,103,412
	60	MIAMI	1,102,904
	61	FLORIDA	1,081,018
	62	YORK	1,077,046
	63	BRITISH COLUMBIA	1,064,920
	64	CALIFORNIA, SANTA BARBARA	1,021,536
8	65	TORONTO	915,669
	66	BOSTON	897,339
	67	DELAWARE	880,854
	68	OKLAHOMA STATE	864,270
	69	INDIANA	849,306
	70	TENNESSEE	839,687
	71	OREGON	828,506
	72	DARTMOUTH	824,054
	73	ALABAMA	810,793
	74	LAVAL	785,734
	75	WESTERN ONTARIO	777,061
	76	BRIGHAM YOUNG	771,433
	77	VPI & SU	760,210
	78	PURDUE	755,943
	79	SOUTHERN ILLINOIS	726,540
	80	CALIFORNIA, RIVERSIDE	688,997
	81	TEMPLE	677,792
	82	MANITOBA	664,066
	83	HOUSTON	661,942
	84	GEORGIA TECH	655,881
	85	CASE WESTERN RESERVE	645,305
	86	NEW MEXICO	641,921
	87	NEBRASKA	634,350
	88	OKLAHOMA	620,741
	89	SUNY-ALBANY	609,493
	90	LOUISIANA STATE	604,281
	91	RICE	546,318
	92	COLORADO	539,236
	93	KENTUCKY	511,584
	94	SUNY-STONY BROOK	501,475
9	95	MCGILL	491,336
	96	MASSACHUSETTS	488,538
	97	SOUTH CAROLINA	479,738
	98	IOWA	447,790
	99	FLORIDA STATE	445,376
	100	IOWA STATE	444,404
	101	QUEEN'S	431,789
	102	WATERLOO	419,351
	103	NOTRE DAME	413,839
	104	SASKATCHEWAN	402,970
	105	MCMASTER	394,403
	106	GUELPH	332,128
	107	HAWAII	318,313

RANK ORDER TABLE 8: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 17,000 and over	8- 10,000-10,999
2- 16,000-16,999	9- 9,000-9,999
3- 15,000-15,999	10- 8,000-8,999
4- 14,000-14,999	11- 7,000-7,999
5- 13,000-13,999	12- 6,000-6,999
6- 12,000-12,999	13- 5,000-5,999
7- 11,000-11,999	14- 4,000-4,999

Gp	Rank	Institution	Value
1	1	HARVARD	37,196,490
	2	CALIFORNIA, LOS ANGELES	28,447,376
	3	CALIFORNIA, BERKELEY	27,524,192
	4	STANFORD	26,692,650
	5	YALE	25,783,700
	6	COLUMBIA	21,910,292
	7	TORONTO	21,268,687
	8	RUTGERS	20,783,551
	9	MICHIGAN	20,472,160
	10	MINNESOTA	18,850,330
	11	WISCONSIN	18,161,108
	12	TEXAS	17,582,447
	13	CORNELL	17,480,059
2	14	ILLINOIS, URBANA	16,337,081
	15	PENNSYLVANIA STATE	16,079,625
3	16	OHIO STATE	15,791,448
	17	WASHINGTON	15,756,741
	18	PRINCETON	15,101,885
	19	CALIFORNIA, DAVIS	15,034,180
4	20	NORTH CAROLINA	14,704,131
	21	NEW YORK	14,525,109
	22	SOUTHERN CALIFORNIA	14,156,385
5	23	CHICAGO	13,953,804
	24	PENNSYLVANIA	13,777,762
	25	VIRGINIA	13,492,869
	26	BRITISH COLUMBIA	13,193,111
	27	ALBERTA	13,026,440
6	28	FLORIDA	12,953,975
	29	ARIZONA	12,658,105
	30	INDIANA	12,608,425
	31	ARIZONA STATE	12,412,356
	32	JOHNS HOPKINS	12,322,381
	33	DUKE	12,177,792
7	34	CALIFORNIA, SAN DIEGO	11,957,000
	35	NORTHWESTERN	11,851,655
	36	MARYLAND	11,711,637
	37	MCGILL	11,686,192
	38	MICHIGAN STATE	11,516,556
8	39	HOWARD	10,827,300
	40	SUNY-BUFFALO	10,702,947
	41	PITTSBURGH	10,592,081
	42	GEORGIA	10,497,853
	43	CALIFORNIA, SANTA BARBARA	10,496,462
	44	GEORGETOWN	10,416,426
	45	CINCINNATI	10,405,415
	46	WAYNE STATE	10,395,333
	47	KANSAS	10,257,916
	48	EMORY	10,154,379
9	49	VANDERBILT	9,945,471
	50	IOWA	9,944,203
	51	CALIFORNIA, IRVINE	9,767,004
	52	CONNECTICUT	9,731,105
	53	LAVAL	9,690,264
	54	WASHINGTON U.-ST. LOUIS	9,557,623
	55	MASSACHUSETTS	9,498,919
	56	MIT	9,442,765
	57	ILLINOIS, CHICAGO	9,418,851
	58	BROWN	9,207,122
	59	WESTERN ONTARIO	9,190,255
	60	TEXAS A&M	9,055,469
10	61	BOSTON	8,628,473
	62	YORK	8,450,085
	63	ROCHESTER	8,400,031
	64	BRIGHAM YOUNG	8,371,488
	65	MIAMI	8,368,445
	66	SYRACUSE	8,286,754
	67	SUNY-STONY BROOK	8,180,816
	68	NORTH CAROLINA STATE	8,142,110
11	69	PURDUE	7,965,803
	70	LOUISIANA STATE	7,961,873
	71	QUEEN'S	7,879,383
	72	VPI & SU	7,853,299
	73	HAWAII	7,793,828
	74	COLORADO	7,771,748
	75	TENNESSEE	7,765,294
	76	DELAWARE	7,655,052
	77	TEMPLE	7,607,314
	78	UTAH	7,503,806
	79	WASHINGTON STATE	7,438,271
	80	TULANE	7,435,087
	81	MISSOURI	7,421,985
	82	MCMASTER	7,421,276
	83	KENTUCKY	7,265,372
	84	SOUTHERN ILLINOIS	7,209,230
	85	OREGON	7,169,345
	86	MANITOBA	7,148,292
12	87	FLORIDA STATE	6,996,259
	88	CALIFORNIA, RIVERSIDE	6,843,056
	89	NEW MEXICO	6,791,259
	90	IOWA STATE	6,785,979
	91	KENT STATE	6,768,538
	92	WATERLOO	6,650,772
	93	SOUTH CAROLINA	6,604,478
	94	DARTMOUTH	6,556,329
	95	HOUSTON	6,433,647
	96	COLORADO STATE	6,428,057
	97	NEBRASKA	6,424,930
	98	SASKATCHEWAN	6,416,000
	99	SUNY-ALBANY	6,326,993
	100	NOTRE DAME	6,208,325
	101	OKLAHOMA	6,186,865
	102	CASE WESTERN RESERVE	6,174,479
13	103	OKLAHOMA STATE	5,692,996
	104	ALABAMA	5,644,663
	105	RICE	5,036,627
14	106	GUELPH	4,889,616
	107	GEORGIA TECH	4,473,279

RANK ORDER TABLE 9: MONOGRAPHS PURCHASED (VOLUMES)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 100,000 and over
2- 90,000-99,999
3- 80,000-89,999
4- 70,000-79,999
5- 60,000-69,999
6- 50,000-59,999
7- 40,000-49,999
8- 30,000-39,999
9- 20,000-29,999
10- 10,000-19,999
11- under 10,000

Gp	Rank	Institution	Value
1	1	YALE	129,155
	2	ILLINOIS, URBANA	124,002
3	3	PRINCETON	82,803
5	4	OHIO STATE	69,321
	5	RUTGERS	63,673
	6	VIRGINIA	63,108
6	7	UTAH	58,902
	8	ARIZONA	57,316
	9	CALIFORNIA, DAVIS	55,913
	10	BRITISH COLUMBIA	55,042
	11	NORTH CAROLINA	54,037
	12	MCGILL	53,464
	13	CHICAGO	50,570
7	14	IOWA	48,770
	15	FLORIDA	46,553
	16	HOWARD	45,421
	17	MASSACHUSETTS	45,179
	18	DUKE	44,517
	19	INDIANA	42,000
	20	MICHIGAN STATE	40,411
8	21	BROWN	38,513
	22	BRIGHAM YOUNG	38,025
	23	CALIFORNIA, SAN DIEGO	37,914
	24	KANSAS	36,747
	25	NEW YORK	35,227
	26	SOUTHERN CALIFORNIA	35,088
	27	WATERLOO	34,675
	28	CALIFORNIA, SANTA BARBARA	34,039
	29	JOHNS HOPKINS	33,965
	30	ILLINOIS, CHICAGO	33,433
	31	GEORGETOWN	32,974
	32	WESTERN ONTARIO	31,871
	33	CALIFORNIA, RIVERSIDE	31,586
	34	OREGON	30,962
	35	ALBERTA	30,948
9	36	LOUISIANA STATE	29,650
	37	WASHINGTON	28,795
	38	MIAMI	28,646
	39	MARYLAND	28,456
	40	TEXAS A&M	28,100
	41	NEBRASKA	27,738
	42	MCMASTER	26,641
	43	GUELPH	26,541
	44	WASHINGTON U.-ST. LOUIS	25,611
	45	LAVAL	25,529
	46	SUNY-STONY BROOK	25,438
	47	CALIFORNIA, IRVINE	24,947
	48	QUEEN'S	24,167
	49	WAYNE STATE	24,075
	50	SUNY-BUFFALO	23,411
	51	VPI & SU	23,226
	52	BOSTON	22,466
	53	COLORADO	22,285
	54	MISSOURI	22,189
	55	KENT STATE	21,977
	56	SUNY-ALBANY	21,562
	57	TULANE	21,403
	58	IOWA STATE	21,094
	59	HOUSTON	20,914
	60	COLORADO STATE	20,814
	61	TENNESSEE	20,599
	62	WASHINGTON STATE	20,498
	63	NEW MEXICO	20,328
10	64	NORTH CAROLINA STATE	19,824
	65	TEMPLE	19,688
	66	SYRACUSE	19,526
	67	MIT	19,069
	68	SOUTHERN ILLINOIS	18,588
	69	ROCHESTER	18,448
	70	OKLAHOMA	17,984
	71	SASKATCHEWAN	17,850
	72	PURDUE	16,675
	73	MANITOBA	16,440
	74	OKLAHOMA STATE	13,142
	75	KENTUCKY	13,008
	76	ALABAMA	12,197
11	77	CASE WESTERN RESERVE	9,803
	78	GEORGIA TECH	5,194
		ARIZONA STATE	U/A
		CALIFORNIA, BERKELEY	U/A
		CALIFORNIA, LOS ANGELES	U/A
		CINCINNATI	U/A
		COLUMBIA	U/A
		CONNECTICUT	U/A
		CORNELL	U/A
		DARTMOUTH	U/A
		DELAWARE	U/A
		EMORY	U/A
		FLORIDA STATE	U/A
		GEORGIA	U/A
		HARVARD	U/A
		HAWAII	U/A
		MICHIGAN	U/A
		MINNESOTA	U/A
		NORTHWESTERN	U/A
		NOTRE DAME	U/A
		PENNSYLVANIA	U/A
		PENNSYLVANIA STATE	U/A
		PITTSBURGH	U/A
		RICE	U/A
		SOUTH CAROLINA	U/A
		STANFORD	U/A
		TEXAS	U/A
		TORONTO	U/A
		VANDERBILT	U/A
		WISCONSIN	U/A
		YORK	U/A

U/A - Unavailable

RANK ORDER TABLE 10: EXPENDITURES FOR MONOGRAPHS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
7- 1,000-1,499
8- 500- 999
9- under 500

Gp	Rank	Institution	Value
1	1	HARVARD	4,557,947
	2	CALIFORNIA, LOS ANGELES +	4,245,299
2	3	STANFORD +	3,693,047
4	4	PRINCETON	2,991,139
	5	TORONTO +	2,953,759
	6	CALIFORNIA, BERKELEY +	2,897,226
5	7	COLUMBIA	2,427,075
	8	RUTGERS	2,409,911
	9	TEXAS +	2,080,578
	10	ARIZONA STATE	2,009,260
	11	ILLINOIS, URBANA +	2,000,890
6	12	BRITISH COLUMBIA +	1,936,721
	13	NORTH CAROLINA	1,917,591
	14	YALE	1,916,700
	15	PENNSYLVANIA STATE +	1,866,689
	16	IOWA +	1,861,358
	17	VIRGINIA	1,846,074
	18	DELAWARE +	1,778,497
	19	UTAH +	1,770,351
	20	OHIO STATE +	1,757,406
	21	CALIFORNIA, SANTA BARBARA +	1,741,829
	22	DUKE	1,730,876
	23	CALIFORNIA, DAVIS	1,662,850
	24	BRIGHAM YOUNG	1,657,817
	25	WISCONSIN	1,639,104
	26	KANSAS +	1,620,068
	27	MCGILL +	1,587,401
	28	MINNESOTA	1,585,277
	29	INDIANA	1,559,352
7	30	CHICAGO +	1,483,595
	31	WAYNE STATE +	1,479,538
	32	MICHIGAN STATE +	1,456,119
	33	EMORY	1,435,300
	34	JOHNS HOPKINS	1,423,924
	35	PENNSYLVANIA +	1,407,698
	36	ARIZONA	1,349,989
	37	MCMASTER +	1,337,702
	38	BROWN	1,336,164
	39	FLORIDA	1,334,091
	40	CINCINNATI +	1,311,611
	41	MARYLAND	1,311,033
	42	ILLINOIS, CHICAGO	1,282,017
	43	MASSACHUSETTS	1,281,363
	44	PITTSBURGH	1,265,663
	45	CALIFORNIA, SAN DIEGO	1,259,409
	46	FLORIDA STATE +	1,255,903
	47	HOWARD	1,243,949
	48	SOUTHERN CALIFORNIA	1,241,852
	49	GEORGETOWN	1,219,511
	50	LOUISIANA STATE	1,209,750
	51	WASHINGTON	1,181,542
	52	NEW YORK	1,144,620
	53	WESTERN ONTARIO +	1,141,226
	54	NOTRE DAME +	1,078,464
	55	NORTHWESTERN	1,072,458
	56	ALBERTA +	1,041,530
	57	CALIFORNIA, RIVERSIDE	1,036,598
	58	VANDERBILT	1,035,961
	59	QUEEN'S +	1,034,915
	60	TULANE	1,031,619
	61	YORK	1,031,230
	62	WATERLOO +	1,024,532
8	63	GEORGIA	996,874
	64	TEXAS A&M +	980,831
	65	ROCHESTER +	940,726
	66	SYRACUSE	927,850
	67	OREGON +	912,555
	68	WASHINGTON U.-ST. LOUIS +	904,464
	69	TEMPLE	903,099
	70	CALIFORNIA, IRVINE	903,086
	71	HAWAII	892,318
	72	SUNY-STONY BROOK +	880,530
	73	SUNY-BUFFALO	862,737
	74	OKLAHOMA	860,808
	75	RICE	851,740
	76	MIAMI	817,069
	77	BOSTON	815,595
	78	IOWA STATE	814,231
	79	KENTUCKY +	796,619
	80	COLORADO STATE	793,003
	81	MISSOURI	790,495
	82	NORTH CAROLINA STATE	767,276
	83	PURDUE	765,635
	84	HOUSTON +	754,168
	85	DARTMOUTH +	747,680
	86	MIT	743,172
	87	SOUTH CAROLINA +	743,113
	88	LAVAL +	714,190
	89	COLORADO	701,728
	90	WASHINGTON STATE	682,346
	91	SASKATCHEWAN +	667,177
	92	NEBRASKA +	644,529
	93	TENNESSEE +	619,549
	94	VPI & SU +	609,872
	95	ALABAMA	588,546
	96	OKLAHOMA STATE	565,897
	97	SUNY-ALBANY	564,636
	98	SOUTHERN ILLINOIS	553,721
	99	MANITOBA +	523,383
	100	GUELPH	519,647
	101	KENT STATE	519,602
	102	NEW MEXICO +	503,450
9	103	CASE WESTERN RESERVE	498,700
	104	GEORGIA TECH	291,947
		CONNECTICUT	U/A
		CORNELL	U/A
		MICHIGAN	U/A

U/A - Unavailable + - Also includes expenditures for Other Library Materials

RANK ORDER TABLE 11: SERIALS PURCHASED (TITLES)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over
2- 40,000-49,999
3- 30,000-39,999
4- 20,000-29,999
5- 10,000-19,999
6- under 10,000

Gp	Rank	Institution	Value
2	1	GEORGIA	42,659
	2	COLUMBIA	40,051
3	3	CALIFORNIA, DAVIS	38,678
	4	YALE	35,446
	5	MICHIGAN	34,497
	6	MINNESOTA	30,141
4	7	TORONTO	29,753
	8	PENNSYLVANIA STATE	29,324
	9	HOWARD	27,957
	10	OHIO STATE	26,749
	11	HAWAII	26,053
	12	FLORIDA	25,839
	13	ARIZONA	25,577
	14	INDIANA	25,237
	15	NEW YORK	24,770
	16	IOWA	21,634
	17	VIRGINIA	21,306
	18	MARYLAND	21,053
5	19	KANSAS	19,721
	20	GEORGETOWN	19,680
	21	SUNY-BUFFALO	19,208
	22	HOUSTON	19,081
	23	ALBERTA	18,486
	24	LOUISIANA STATE	18,189
	25	CALIFORNIA, SAN DIEGO	18,068
	26	PURDUE	18,003
	27	WASHINGTON U.-ST. LOUIS	17,799
	28	BOSTON	17,749
	29	BRITISH COLUMBIA	16,793
	30	ALABAMA	16,765
	31	OKLAHOMA	16,515
	32	DARTMOUTH	16,469
	33	WAYNE STATE	16,443
	34	SUNY-ALBANY	16,277
	35	OREGON	16,038
	36	KENTUCKY	16,027
	37	TENNESSEE	15,858
	38	JOHNS HOPKINS	15,812
	39	MICHIGAN STATE	15,716
	40	TEXAS A&M	15,713
	41	QUEEN'S	15,599
	42	VPI & SU	15,582
	43	CALIFORNIA, IRVINE	15,541
	44	GEORGIA TECH	15,082
	45	MASSACHUSETTS	14,744
	46	TEMPLE	14,635
	47	SOUTHERN CALIFORNIA	14,499
	48	MCGILL	14,250
	49	IOWA STATE	13,650
	50	COLORADO	13,539
	51	MISSOURI	12,925
	52	BROWN	12,909
	53	CALIFORNIA, SANTA BARBARA	12,672
	54	WATERLOO	12,657
	55	NORTH CAROLINA STATE	12,462
	56	ROCHESTER	11,853
	57	CALIFORNIA, RIVERSIDE	11,728
	58	CASE WESTERN RESERVE	11,524
	59	RICE	11,434
	60	BRIGHAM YOUNG	11,089
	61	MANITOBA	10,777
	62	UTAH	10,649
	63	MIT	10,626
	64	LAVAL	10,396
6	65	MCMASTER	9,959
	66	OKLAHOMA STATE	9,873
	67	SASKATCHEWAN	8,843
	68	COLORADO STATE	8,524
	69	KENT STATE	6,792
		ARIZONA STATE	U/A
		CALIFORNIA, BERKELEY	U/A
		CALIFORNIA, LOS ANGELES	U/A
		CHICAGO	U/A
		CINCINNATI	U/A
		CONNECTICUT	U/A
		CORNELL	U/A
		DELAWARE	U/A
		DUKE	U/A
		EMORY	U/A
		FLORIDA STATE	U/A
		GUELPH	U/A
		HARVARD	U/A
		ILLINOIS, CHICAGO	U/A
		ILLINOIS, URBANA	U/A
		MIAMI	U/A
		NEBRASKA	U/A
		NEW MEXICO	U/A
		NORTH CAROLINA	U/A
		NORTHWESTERN	U/A
		NOTRE DAME	U/A
		PENNSYLVANIA	U/A
		PITTSBURGH	U/A
		PRINCETON	U/A
		RUTGERS	U/A
		SOUTH CAROLINA	U/A
		SOUTHERN ILLINOIS	U/A
		STANFORD	U/A
		SUNY-STONY BROOK	U/A
		SYRACUSE	U/A
		TEXAS	U/A
		TULANE	U/A
		VANDERBILT	U/A
		WASHINGTON	U/A
		WASHINGTON STATE	U/A
		WESTERN ONTARIO	U/A
		WISCONSIN	U/A
		YORK	U/A

U/A - Unavailable

RANK ORDER TABLE 12: EXPENDITURES FOR SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 3,100 and over
2- 2,900-3,099
3- 2,700-2,899
4- 2,500-2,699
5- 2,300-2,499
6- 2,100-2,299
7- 1,900-2,099
8- 1,700-1,899
9- 1,500-1,699
10- 1,300-1,499
11- 1,100-1,299
12- under 1,100

Gp	Rank	Institution	Value
1	1	HARVARD	4,027,414
	2	CALIFORNIA, BERKELEY	3,768,251
	3	STANFORD	3,601,493
	4	MICHIGAN	3,480,670
	5	WASHINGTON	3,431,030
	6	RUTGERS	3,343,055
	7	MINNESOTA	3,193,370
	8	COLUMBIA	3,161,492
	9	OHIO STATE	3,136,210
2	10	ILLINOIS, URBANA	3,058,629
	11	TORONTO	3,030,481
	12	YALE	2,945,700
	13	ARIZONA	2,922,529
3	14	CALIFORNIA, DAVIS	2,898,793
	15	CALIFORNIA, LOS ANGELES	2,898,008
	16	PENNSYLVANIA STATE	2,895,260
	17	NEW YORK	2,874,549
	18	WISCONSIN	2,855,167
	19	HOWARD	2,789,240
	20	TEXAS	2,761,701
	21	GEORGIA	2,747,415
4	22	ARIZONA STATE	2,664,416
	23	SOUTHERN CALIFORNIA	2,631,595
	24	NORTH CAROLINA	2,619,503
	25	PENNSYLVANIA	2,554,585
5	26	VPI & SU	2,481,964
	27	WASHINGTON U.-ST. LOUIS	2,461,542
	28	CHICAGO	2,443,075
	29	DUKE	2,426,964
	30	MARYLAND	2,347,826
	31	ALBERTA	2,326,135
	32	FLORIDA	2,323,683
6	33	VIRGINIA	2,282,160
	34	SUNY-BUFFALO	2,258,476
	35	TEXAS A&M	2,256,497
	36	MIAMI	2,251,674
	37	CINCINNATI	2,203,671
	38	PURDUE	2,196,588
	39	INDIANA	2,162,010
	40	WAYNE STATE	2,154,916
	41	NORTHWESTERN	2,136,238
	42	ROCHESTER	2,113,028
7	43	LOUISIANA STATE	2,092,682
	44	PRINCETON	2,084,136
	45	JOHNS HOPKINS	2,061,677
	46	IOWA	2,049,249
	47	VANDERBILT	2,044,362
	48	KANSAS	2,043,554
	49	PITTSBURGH	2,035,590
	50	NEBRASKA	2,018,256
	51	BRITISH COLUMBIA	2,007,770
	52	MICHIGAN STATE	1,979,604
	53	SYRACUSE	1,952,767
8	54	KENTUCKY	1,942,350
	55	FLORIDA STATE	1,935,139
	56	BOSTON	1,920,121
	57	WESTERN ONTARIO	1,894,274
	58	CALIFORNIA, IRVINE	1,880,042
	59	SASKATCHEWAN	1,866,567
	60	CALIFORNIA, SAN DIEGO	1,856,112
	61	SOUTHERN ILLINOIS	1,836,117
	62	HOUSTON	1,832,963
	63	TENNESSEE	1,832,381
	64	MASSACHUSETTS	1,831,597
	65	COLORADO	1,826,849
	66	SOUTH CAROLINA	1,810,259
	67	IOWA STATE	1,809,881
	68	MCMASTER	1,800,795
	69	NORTH CAROLINA STATE	1,756,547
	70	MCGILL	1,752,277
	71	ILLINOIS, CHICAGO	1,733,270
	72	CONNECTICUT	1,727,741
	73	EMORY	1,712,654
	74	WASHINGTON STATE	1,704,943
9	75	DARTMOUTH	1,694,601
	76	CASE WESTERN RESERVE	1,691,341
	77	SUNY-STONY BROOK	1,684,930
	78	MIT	1,681,154
	79	HAWAII	1,663,805
	80	QUEEN'S	1,662,734
	81	TEMPLE	1,655,736
	82	OKLAHOMA	1,643,465
	83	TULANE	1,638,882
	84	OREGON	1,611,696
	85	MISSOURI	1,592,925
	86	CALIFORNIA, SANTA BARBARA	1,586,088
	87	DELAWARE	1,566,949
	88	ALABAMA	1,558,987
10	89	GEORGETOWN	1,487,902
	90	SUNY-ALBANY	1,485,626
	91	MANITOBA	1,461,430
	92	OKLAHOMA STATE	1,443,603
	93	NOTRE DAME	1,422,936
	94	BRIGHAM YOUNG	1,411,989
	95	LAVAL	1,404,862
	96	YORK	1,324,858
11	97	BROWN	1,278,510
	98	WATERLOO	1,275,916
	99	NEW MEXICO	1,206,370
	100	CALIFORNIA, RIVERSIDE	1,200,963
	101	UTAH	1,189,560
	102	COLORADO STATE	1,183,032
	103	RICE	1,171,283
	104	GEORGIA TECH	1,121,368
12	105	KENT STATE	1,062,065
	106	GUELPH	965,471
		CORNELL	U/A

U/A - Unavailable

RANK ORDER TABLE 13: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 55,000 and over
2- 50,000-54,999
3- 45,000-49,999
4- 40,000-44,999
5- 35,000-39,999
6- 30,000-34,999
7- 25,000-29,999
8- 20,000-24,999
9- 15,000-19,999
10- 10,000- 14,999
11- 5,000- 9,999
12- under 5,000

Gp	Rank	Institution	Value
1	1	MINNESOTA	154,287
	2	ILLINOIS, URBANA	136,745
	3	WASHINGTON	79,749
	4	WISCONSIN	77,690
	5	CALIFORNIA, LOS ANGELES	60,225
2	6	SOUTHERN ILLINOIS	53,429
	7	IOWA	50,716
3	8	INDIANA	46,265
4	9	ALBERTA	44,218
	10	TEXAS A&M	41,135
5	11	CALIFORNIA, BERKELEY	38,500
	12	ARIZONA	37,920
	13	HARVARD	37,127
	14	FLORIDA	36,078
—	15	CHICAGO	35,724
	16	CASE WESTERN RESERVE	35,605
	17	CALIFORNIA, DAVIS	35,373
6	18	KANSAS	34,176
	19	SUNY-BUFFALO	32,152
	20	ILLINOIS, CHICAGO	31,799
	21	GEORGIA	31,711
	22	ARIZONA STATE	31,427
	23	OHIO STATE	31,060
7	24	NORTH CAROLINA STATE	29,571
	25	MISSOURI	29,449
	26	NORTH CAROLINA	29,021
	27	DUKE	28,963
	28	WAYNE STATE	27,606
	29	FLORIDA STATE	27,579
	30	CINCINNATI	26,757
	31	MCGILL	26,339
	32	ROCHESTER	25,871
	33	OKLAHOMA	25,448
	34	VIRGINIA	25,349
	35	CONNECTICUT	25,166
	36	NOTRE DAME	25,121
8	37	CORNELL	24,396
	38	SUNY-STONY BROOK	23,655
	39	IOWA STATE	23,251
	40	MICHIGAN	22,773
	41	PENNSYLVANIA STATE	22,457
	42	EMORY	21,897
	43	BRITISH COLUMBIA	21,149
	44	SUNY-ALBANY	20,991
-	45	WASHINGTON U.-ST. LOUIS	20,926
	46	MIAMI	20,688
	47	CALIFORNIA, SAN DIEGO	20,609
	48	TORONTO	20,583
9	49	COLUMBIA	19,441
	50	KENTUCKY	19,282
	51	COLORADO	18,741
	52	WASHINGTON STATE	18,688
	53	VANDERBILT	18,491
	54	STANFORD	18,198
	55	NORTHWESTERN	17,922
	56	RUTGERS	17,476
	57	JOHNS HOPKINS	17,468
	58	PENNSYLVANIA	17,315
	59	COLORADO STATE	16,994
	60	MARYLAND	16,683
	61	TEXAS	16,206
	62	CALIFORNIA, IRVINE	15,990
	63	MIT	15,968
	64	MASSACHUSETTS	15,878
	65	PITTSBURGH	15,747
	66	RICE	15,717
	67	MICHIGAN STATE	15,362
	68	GEORGIA TECH	15,039
10	69	VPI & SU	14,877
	70	LAVAL	14,810
	71	HAWAII	14,629
	72	OREGON	14,239
	73	SOUTH CAROLINA	13,841
	74	PURDUE	13,609
	75	NEBRASKA	13,280
	76	DARTMOUTH	12,795
	77	OKLAHOMA STATE	12,660
	78	MANITOBA	12,199
	79	KENT STATE	11,789
	80	UTAH	11,393
	81	DELAWARE	11,178
	82	NEW YORK	11,062
	83	LOUISIANA STATE	11,032
	84	BRIGHAM YOUNG	10,674
	85	TULANE	10,367
	86	CALIFORNIA, RIVERSIDE	10,283
11	87	MCMASTER	9,973
	88	BROWN	9,909
	89	NEW MEXICO	9,821
	90	TEMPLE	9,786
	91	WESTERN ONTARIO	9,676
	92	YALE	9,661
	93	CALIFORNIA, SANTA BARBARA	9,465
	94	HOUSTON	9,036
	95	SASKATCHEWAN	9,017
	96	YORK	8,742
	97	TENNESSEE	8,399
	98	PRINCETON	7,856
	99	SOUTHERN CALIFORNIA	6,520
	100	SYRACUSE	6,368
	101	ALABAMA	6,174
	102	BOSTON	5,723
	103	GEORGETOWN	5,293
12	104	WATERLOO	4,836
	105	QUEEN'S	4,188
	106	HOWARD	2,584
	107	GUELPH	2,260

RANK ORDER TABLE 14: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 22,000 and over
2- 20,000-21,999
3- 18,000-19,999
4- 16,000-17,999
5- 14,000-15,999
6- 12,000-13,999
7- 10,000-11,999
8- 8,000- 9,999
9- 6,000- 7,999
10- 4,000- 5,999
11- 2,000- 3,999
12- under 2,000

Gp	Rank	Institution	Value
1	1	ILLINOIS, URBANA	164,950
2	2	TEXAS A&M	20,489
3	3	CALIFORNIA, BERKELEY	19,409
4	4	JOHNS HOPKINS	17,681
	5	KANSAS	16,896
	6	ILLINOIS, CHICAGO	16,031
5	7	OKLAHOMA	14,716
	8	PENNSYLVANIA	14,607
	9	ALBERTA	14,015
6	10	BRIGHAM YOUNG	13,675
	11	CORNELL	13,337
	12	WISCONSIN	13,322
	13	OHIO STATE	13,297
	14	NORTHWESTERN	12,931
	15	DUKE	12,902
	16	RUTGERS	12,852
	17	MIAMI	12,468
	18	INDIANA	12,343
	19	COLORADO STATE	12,290
	20	PENNSYLVANIA STATE	12,250
7	21	MINNESOTA	11,446
	22	BRITISH COLUMBIA	11,283
	23	MICHIGAN	11,150
	24	KENTUCKY	11,023
	25	CONNECTICUT	10,953
	26	CINCINNATI	10,562
	27	CALIFORNIA, SANTA BARBARA	10,362
	28	HOUSTON	10,209
	29	WASHINGTON U.-ST. LOUIS	10,079
	30	LAVAL	10,051
	31	CALIFORNIA, LOS ANGELES	10,028
	32	SASKATCHEWAN	10,023
8	33	VIRGINIA	9,966
	34	TULANE	9,761
	35	CALIFORNIA, RIVERSIDE	9,654
	36	COLORADO	9,609
	37	CALIFORNIA, SAN DIEGO	9,453
	38	CALIFORNIA, IRVINE	9,425
	39	SUNY-BUFFALO	9,159
	40	VANDERBILT	9,081
	41	CASE WESTERN RESERVE	9,027
	42	BOSTON	8,869
	43	TORONTO	8,731
	44	TEXAS	8,665
	45	IOWA	8,581
	46	ROCHESTER	8,576
	47	CHICAGO	8,456
	48	CALIFORNIA, DAVIS	8,328
	49	ARIZONA	8,315
	50	SOUTHERN-ILLINOIS	8,311
	51	HARVARD	8,281
	52	STANFORD	8,278
	53	PITTSBURGH	8,095
	54	OREGON	8,078
9	55	MCMASTER	7,947
	56	UTAH	7,881
	57	MISSOURI	7,866
	58	SUNY-ALBANY	7,637
	59	DARTMOUTH	7,617
	60	NOTRE DAME	7,583
	61	PURDUE	7,570
	62	NEW YORK	7,380
	63	KENT STATE	7,373
	64	MCGILL	7,363
	65	ARIZONA STATE	7,300
	66	FLORIDA STATE	7,278
	67	MASSACHUSETTS	6,907
	68	FLORIDA	6,798
	69	LOUISIANA STATE	6,615
	70	QUEEN'S	6,551
	71	SOUTH CAROLINA	6,496
	72	NEBRASKA	6,475
	73	YALE	6,365
	74	TEMPLE	6,245
	75	COLUMBIA	6,111
	76	PRINCETON	6,078
	77	EMORY	6,019
10	78	SUNY-STONY BROOK	5,988
	79	GEORGIA	5,979
	80	MICHIGAN STATE	5,964
	81	NEW MEXICO	5,928
	82	IOWA STATE	5,603
	83	SYRACUSE	5,587
	84	MANITOBA	5,520
	85	OKLAHOMA STATE	5,431
	86	BROWN	5,341
	87	WASHINGTON	5,336
	88	TENNESSEE	4,913
	89	WATERLOO	4,903
	90	NORTH CAROLINA	4,875
	91	ALABAMA	4,807
	92	SOUTHERN CALIFORNIA	4,665
	93	WASHINGTON STATE	4,513
	94	NORTH CAROLINA STATE	4,278
	95	YORK	4,225
	96	WESTERN ONTARIO	4,155
11	97	DELAWARE	3,785
	98	GEORGETOWN	3,634
	99	VPI & SU	3,547
	100	GUELPH	3,319
	101	WAYNE STATE	3,310
	102	MARYLAND	3,138
	103	RICE	3,125
	104	GEORGIA TECH	3,104
	105	MIT	2,967
	106	HAWAII	2,279
12	107	HOWARD	1,211

RANK ORDER TABLE 15: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 225 and over
2- 200-224
3- 175-199
4- 150-174
5- 125-149
6- 100-124
7- 75- 99
8- 50- 74
9- 25- 49

Gp	Rank	Institution	Value
1	1	HARVARD	325
2	2	CALIFORNIA, LOS ANGELES	209
	3	SOUTHERN CALIFORNIA	205
3	4	YALE	195
4	5	CALIFORNIA, BERKELEY	168
	6	COLUMBIA	163
	6	CORNELL	163
	8	STANFORD	162
	9	TORONTO	160
5	10	ILLINOIS, URBANA	148
	11	MICHIGAN	142
	12	WISCONSIN	139
	13	TEXAS	137
	14	MINNESOTA	126
6	15	WASHINGTON	119
	16	OHIO STATE	118
	16	RUTGERS	118
	18	NORTH CAROLINA	117
	19	NORTHWESTERN	114
	20	PENNSYLVANIA STATE	113
	21	INDIANA	112
	22	NEW YORK	109
	23	PENNSYLVANIA	108
	24	FLORIDA	106
	25	PRINCETON	105
	26	BRITISH COLUMBIA	103
7	27	ARIZONA	98
	28	VIRGINIA	96
	29	ARIZONA STATE	95
	30	DUKE	94
	31	SUNY-BUFFALO	92
	32	MARYLAND	90
	33	BRIGHAM YOUNG	88
	34	KANSAS	87
	34	MIT	87
	34	VANDERBILT	87
	37	ALBERTA	86
	37	IOWA	86
	39	JOHNS HOPKINS	84
	40	PITTSBURGH	83
	41	CALIFORNIA, SAN DIEGO	82
	42	HOWARD	81
	43	MCGILL	80
	43	MICHIGAN STATE	80
	45	GEORGIA	78
	46	CINCINNATI	77
8	47	CHICAGO	74
	47	ILLINOIS, CHICAGO	74
	47	MIAMI	74
	47	WAYNE STATE	74
	51	GEORGETOWN	73
	52	BROWN	72
	53	LAVAL	70
	53	TEMPLE	70
	55	SYRACUSE	69
	56	CALIFORNIA, DAVIS	68
	56	KENTUCKY	68
	58	TEXAS A&M	67
	59	BOSTON	66
	59	CONNECTICUT	66
	59	HAWAII	66
	59	WASHINGTON U.-ST. LOUIS	66
	63	EMORY	65
	64	CALIFORNIA, SANTA BARBARA	62
	64	CASE WESTERN RESERVE	62
	64	LOUISIANA STATE	62
	64	ROCHESTER	62
	68	SOUTH CAROLINA	60
	69	PURDUE	59
	69	VPI & SU	59
	71	DELAWARE	57
	71	MANITOBA	57
	71	TENNESSEE	57
	74	FLORIDA STATE	56
	74	MASSACHUSETTS	56
	74	MISSOURI	56
	77	ALABAMA	55
	77	CALIFORNIA, IRVINE	55
	77	SOUTHERN ILLINOIS	55
	80	SUNY-STONY BROOK	54
	80	WESTERN ONTARIO	54
	82	NEBRASKA	53
	83	TULANE	52
	84	COLORADO	50
	84	OREGON	50
	84	SUNY-ALBANY	50
	84	UTAH	50
9	88	OKLAHOMA	48
	88	YORK	48
	90	NEW MEXICO	46
	91	HOUSTON	45
	91	OKLAHOMA STATE	45
	91	WASHINGTON STATE	45
	94	QUEEN'S	44
	94	WATERLOO	44
	96	GEORGIA TECH	43
	96	IOWA STATE	43
	96	NORTH CAROLINA STATE	43
	99	KENT STATE	42
	99	NOTRE DAME	42
	99	RICE	42
	102	COLORADO STATE	41
	102	DARTMOUTH	41
	104	MCMASTER	38
	105	SASKATCHEWAN	36
	106	CALIFORNIA, RIVERSIDE	34
	107	GUELPH	30

RANK ORDER TABLE 16: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 450 and over
2- 400-449
3- 350-399
4- 300-349
5- 250-299
6- 200-249
7- 150-199
8- 100-149
9- 50- 99
10- under 50

Gp	Rank	Institution	Value
1	1	HARVARD	575
	2	TORONTO	496
3	3	YALE	378
	4	TEXAS	376
	5	STANFORD	359
4	6	COLUMBIA	328
	7	CALIFORNIA, LOS ANGELES	325
	8	MICHIGAN	302
5	9	CALIFORNIA, BERKELEY	294
	10	ALBERTA	275
	10	ILLINOIS, URBANA	275
	10	PENNSYLVANIA STATE	275
	13	CORNELL	270
	14	BRITISH COLUMBIA	269
	15	RUTGERS	266
6	16	WASHINGTON	238
	17	PRINCETON	222
	18	WISCONSIN	216
	19	CHICAGO	214
	20	ARIZONA STATE	211
	21	OHIO STATE	210
	22	INDIANA	205
	22	NORTH CAROLINA	205
	24	WESTERN ONTARIO	202
7	25	MCGILL	199
	26	JOHNS HOPKINS	198
	27	ARIZONA	196
	28	GEORGIA	195
	29	VIRGINIA	194
	30	LAVAL	192
	31	CALIFORNIA, DAVIS	187
	32	NEW YORK	186
	33	MINNESOTA	185
	34	FLORIDA	184
	35	ILLINOIS, CHICAGO	179
	36	DUKE	176
	37	CALIFORNIA, SAN DIEGO	173
	38	PITTSBURGH	169
	39	PENNSYLVANIA	165
	40	SOUTHERN CALIFORNIA	152
	41	QUEEN'S	151
	42	TEXAS A&M	150
8	43	MARYLAND	148
	44	MANITOBA	147
	44	PURDUE	147
	44	SYRACUSE	147
	47	MIT	146
	47	NORTHWESTERN	146
	49	BOSTON	145
	49	CALIFORNIA, SANTA BARBARA	145
	51	EMORY	143
9	52	TENNESSEE	143
	53	GEORGETOWN	141
	54	CINCINNATI	140
	54	MCMASTER	140
	54	WATERLOO	140
	57	YORK	138
	58	VANDERBILT	137
	59	MICHIGAN STATE	131
	60	SASKATCHEWAN	129
	61	NOTRE DAME	126
	62	SUNY-STONY BROOK	125
	63	HOWARD	124
	63	KANSAS	124
	63	MISSOURI	124
	63	WASHINGTON U.-ST. LOUIS	124
	67	MIAMI	123
	68	NORTH CAROLINA STATE	122
	69	KENTUCKY	121
	69	MASSACHUSETTS	121
	71	LOUISIANA STATE	118
	72	DELAWARE	115
	72	SUNY-BUFFALO	115
	74	TEMPLE	114
	75	ROCHESTER	113
	75	SOUTH CAROLINA	113
	77	CALIFORNIA, IRVINE	112
	77	VPI & SU	112
	79	IOWA	111
	79	NEBRASKA	111
	79	UTAH	111
	79	WASHINGTON STATE	111
	83	GUELPH	110
	84	NEW MEXICO	109
	85	IOWA STATE	108
	86	DARTMOUTH	107
	87	BROWN	106
	88	CONNECTICUT	101
	88	FLORIDA STATE	101
	88	TULANE	101
	91	COLORADO	100
	91	HAWAII	100
9	93	CALIFORNIA, RIVERSIDE	98
	94	SOUTHERN ILLINOIS	96
	94	WAYNE STATE	96
	96	KENT STATE	93
	97	OREGON	91
	98	HOUSTON	86
	99	SUNY-ALBANY	85
	100	OKLAHOMA	80
	101	CASE WESTERN RESERVE	79
	102	COLORADO STATE	78
	103	RICE	76
	104	OKLAHOMA STATE	75
	105	ALABAMA	73
	106	GEORGIA TECH	51
10	107	BRIGHAM YOUNG	47

RANK ORDER TABLE 17: TOTAL STAFF

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over
2- 600-649
3- 550-599
4- 500-549
5- 450-499
6- 400-449
7- 350-399
8- 300-349
9- 250-299
10- 200-249
11- 150-199
12- 100-149

Gp	Rank	Institution	Value
1	1	HARVARD	1,049
	2	YALE	868
	3	TORONTO	830
	4	CALIFORNIA, BERKELEY	740
	5	CALIFORNIA, LOS ANGELES	711
2	6	COLUMBIA	631
	7	STANFORD	618
3	8	MICHIGAN	595
	9	TEXAS	586
4	10	SOUTHERN CALIFORNIA	546
	11	ILLINOIS, URBANA	536
	12	RUTGERS	521
	13	CORNELL	511
	14	WISCONSIN	504
5	15	WASHINGTON	483
	16	INDIANA	467
	17	MINNESOTA	463
	18	PENNSYLVANIA STATE	457
	19	OHIO STATE	454
6	20	BRITISH COLUMBIA	419
	21	NORTH CAROLINA	412
	22	FLORIDA	403
	23	ALBERTA	402
7	24	ARIZONA	390
	25	PRINCETON	375
	26	PENNSYLVANIA	368
	27	ARIZONA STATE	366
	28	NEW YORK	364
	29	NORTHWESTERN	360
	30	GEORGIA	354
8	31	CHICAGO	349
	32	MARYLAND	348
	33	VIRGINIA	343
	34	PITTSBURGH	342
	35	CALIFORNIA, SAN DIEGO	331
	35	MICHIGAN STATE	331
	37	JOHNS HOPKINS	330
	38	BRIGHAM YOUNG	325
	39	MCGILL	321
	40	CALIFORNIA, DAVIS	320
	40	DUKE	320
	42	TEXAS A&M	309
	43	WESTERN ONTARIO	306
9	44	KANSAS	298
	45	ILLINOIS, CHICAGO	295
	46	CINCINNATI	294
	47	SUNY-BUFFALO	291
	48	VANDERBILT	289
	49	GEORGETOWN	287
	50	LOUISIANA STATE	283
	51	BOSTON	278
	52	IOWA	274
	53	SYRACUSE	272
	54	LAVAL	269
	55	PURDUE	268
	56	WAYNE STATE	266
	57	MIT	265
	58	HOWARD	264
	59	KENTUCKY	263
	60	EMORY	258
	61	NEW MEXICO	251
	62	CALIFORNIA, SANTA BARBARA	250
10	63	SOUTHERN ILLINOIS	246
	64	TENNESSEE	244
	65	BROWN	243
	66	MIAMI	241
	67	YORK	238
	68	FLORIDA STATE	237
	69	MISSOURI	235
	70	HAWAII	231
	70	ROCHESTER	231
	72	CONNECTICUT	230
	72	WASHINGTON U.-ST. LOUIS	230
	74	MANITOBA	229
	74	UTAH	229
	76	TEMPLE	227
	77	MASSACHUSETTS	226
	78	NORTH CAROLINA STATE	224
	79	SUNY-STONY BROOK	221
	80	DELAWARE	220
	80	VPI & SU	220
	82	CALIFORNIA, IRVINE	217
	83	OREGON	215
	83	QUEEN'S	215
	85	COLORADO	211
	86	NEBRASKA	210
	87	IOWA STATE	209
	88	WASHINGTON STATE	206
	89	WATERLOO	205
	90	SOUTH CAROLINA	203
11	91	MCMASTER	195
	92	OKLAHOMA	191
	93	NOTRE DAME	190
	94	OKLAHOMA STATE	185
	95	DARTMOUTH	184
	96	KENT STATE	183
	97	TULANE	181
	98	HOUSTON	178
	99	SASKATCHEWAN	177
	100	ALABAMA	175
	101	CALIFORNIA, RIVERSIDE	173
	102	CASE WESTERN RESFRVE	171
	103	SUNY-ALBANY	170
	104	GUELPH	154
12	105	RICE	149
	106	COLORADO STATE	132
	107	GEORGIA TECH	112

ARL STATISTICS, 1987-88

Instructions for Completing the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in *American National Standard for Library and Information Sciences and Related Publishing Practices - Library Statistics*. Z39.7-1983. (New York, American National Standards Institute, 1983.)

2. The questionnaire assumes a fiscal year ending June 30, 1988. If your fiscal year is different, please provide a footnote on p. 4 of the questionnaire.

3. **Please do not use decimals.** All figures should be rounded to the nearest whole number.

4. **Please do not leave any lines blank.** If the appropriate answer is zero or none, use **0**. If an exact figure is unavailable, use **U/A**. If a question is not applicable to your library, use **N/A**.

5. In a university which includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics in its Integrated Postsecondary Education Data System (IPEDS) survey described a **branch campus** as one "located in a community different from that of its parent institution ... beyond a reasonable commuting distance from the main campus ... The educational activities at the location must be organized on a relatively permanent basis ... and include course offerings for one or more complete college-level programs of at least one full year.") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 4 of the questionnaire.

6. A **branch library** is defined as an auxiliary library service outlet with quarters separate from the central library of a system, which has a basic collection of books and other materials, a regular staffing level, and an established schedule. A branch library is administered either by the central library or (as in the case of some law and medical libraries) through the administrative structure of other units within the university. Departmental study/reading rooms are not included.

7. **Questions 1-6. Collections.** Use the ANSI Z39.7-1983 definition for **volume** as follows:

> a physical unit of any printed, typewritten, handwritten, mimeographed, or processed work, contained in one binding or portfolio, hardbound or paperbound, which has been cataloged, classified, and made ready for use.

Include duplicates and bound volumes of periodicals. Exclude microforms, maps, nonprint materials, and uncataloged items. Exclude government document volumes unless they are cataloged, classified, and shelved as part of the general collection. If any of these items cannot be excluded, please provide an explanatory footnote on p. 4 of the questionnaire. For purposes of this questionnaire, unclassified bound serials that are arranged in alphabetical order are considered classified.

8. **Question 2.** Include only volumes cataloged, classified, and made ready for use.

9. **Question 6.** Report number of volumes purchased. Include all volumes for which an expenditure was made during 1987-88, including volumes paid for in advance but not received during the fiscal year. Include monographs in series and continuations. If only number of titles purchased can be reported, please report the data and provide an explanatory footnote on p. 4 of the questionnaire. **Note:** This question is concerned with volumes purchased rather than volumes received or

cataloged. Question 15 requests the expenditure for the volumes counted here.

10. **Questions 7-9. Serials**. Include duplicate subscriptions and only those government document serials that are cataloged, classified, and shelved as part of the general collection; do not include government documents serials that are housed in a separate government documents collection. Exclude monographic and publishers' series. A **serial** is

> a publication issued in successive parts, usually at regular intervals, and as a rule, intended to be continued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies.

11. **Question 8.** If the number of nonpurchased serials is not available, report only the total number of current serials received on line 9, and report **U/A** for lines 7 and 8.

12. **Question 10. Microforms**. Include number of reels of microfilm, number of microcards, and number of microprint and microfiche sheets. Exclude government document microforms.

13. **Questions 11-14. Personnel.** Report the number of staff in filled positions, or positions which are only temporarily vacant. Include cost recovery positions and staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff. If such staff cannot be included, provide a footnote on p. 4 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. Round figures to the nearest whole numbers.

14. **Question 11**. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.

15. **Questions 15-26. Expenditures**. Report all expenditures of funds that come to the library from the regular institutional budget and from other sources, such as research grants, special projects, gifts and endowments, and fees for service. Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.2826, the average monthly noon exchange rate published in the Bank of Canada *Review* for the period July 1987-June 1988.

16. **Question 15**. Include here expenditures for volumes reported on line 6.

17. **Question 16**. Exclude monographic and publishers' series.

18. **Question 17**. Include all materials except monographs and current serials, e.g. microforms, backfiles of serials, charts and maps, audiovisual materials, manuscripts, electronic media, etc. If expenditures for these materials are included in lines 15 and/or 16 and cannot be disaggregated, please report U/A and provide a footnote on page 4.

19. **Question 18**. Include any other materials funds expenditures not included in questions 15-17, e.g., expenditures for bibliographic utilities, literature searching, security devices, memberships for the purposes of publications, etc. Please list categories, with amounts, in a footnote on p. 4 of the questionnaire. Note: If your library does not use materials funds for non-materials expenditures, **please report 0, not U/A.** (Many libraries include expenditures for these items in Other Operating Expenditures, line 25.)

20. **Question 20**. Include only contract expenditures. If all binding is done in-house, state this fact and give in-house expenditures in a footnote on p. 4 of the questionnaire; do not include personnel expenditures.

21. **Questions 21-24**. Exclude fringe benefits.

22. **Questions 23-24**. Report 100% of student wages. Include federal and local funds for work study students, regardless of budgetary source of funds.

23. **Question 25**. Exclude expenditures for buildings, maintenance, and fringe benefits.

24. **Questions 27-28**. Include both original materials and photocopies in lieu of originals.

25. **Questions 29-30. Ph.D. Degrees**. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not included in this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 4 of the questionnaire.

26. **Question 30**. For the purposes of this report, Ph.D. fields are defined as the specific discipline specialties formerly enumerated in the form used by the U.S. Department of Education entitled, "Integrated Postsecondary Education Data System Survey, Postsecondary Completions," designated as ED (CS) Form G50-14P-C. Although the IPEDS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 4 of the questionnaire.

27. **Questions 31-34. Enrollment.** U.S. libraries should use the 1987-88 enrollment figures reported to the Department of Education on the form entitled "Integrated Postsecondary Education Data System, Fall Enrollment . . . 1987," designated as ED (CS) Form G50-14P-EF. The line and column numbers on the IPEDS form for each category are noted on the questionnaire. Please check these figures against the enrollment figures reported to ARL in 1987 to ensure consistency and accuracy. **Note**: In the past, the number of part-time students reported was FTE; the number now reported to IPEDS is a head count of part-time students.

28. **Question 35. Faculty**. Instructional faculty are defined as those members of the Instructional/Research staff who are employed on a full-time basis and whose major regular assignment is instruction, including those with released time for research. Please be sure number reported is equivalent to the number reported for 1986-87.

29. **Footnotes**. Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in the published report, so that the ARL Office can interpret your footnotes correctly. For your convenience, a copy of your footnotes from the 1986-87 *ARL Statistics* is included in the questionnaire. Please update these notes, delete them, or indicate that they remain valid. (Please note that the number in parentheses refers to the appropriate column on the Library Data Tables in the published *Statistics*, not to a line number on the questionnaire.)

30. After the questionnaire has been completed, please compare the figures with those submitted last year. On occasion, an error will be detected because of an unusual difference between numbers submitted this year and those for the preceding year. If an unusual change has occurred, please provide an explanatory footnote on p. 4 of the questionnaire.

31. Before returning the questionnaire, **please check all math.** Many follow-up telephone calls can be avoided if math errors are corrected before the questionnaire is submitted.

32. Return one copy of the questionnaire to the ARL Office by **October 7, 1988**. If there are any questions about the procedure to be followed in completing these questionnaires, contact the ARL Office. Please be sure the library director has signed the questionnaire before it is returned to the ARL Office.

Association of Research Libraries
1527 New Hampshire Avenue, N.W., Washington, D.C. 20036 (202) 232-2466

ARL STATISTICS QUESTIONNAIRE, 1987-88

Please do not leave any lines blank. If the appropriate answer is zero or none, use "0". If an exact figure is unavailable, use "U/A." If a question is not applicable, use "N/A."

Reporting Institution _____ Date Returned to ARL _____

Questionnaire Completed by (Name) _____

Position _____ Phone _____

Contact Person (if different) _____

Position _____ Phone _____

COLLECTIONS *(See instructions 7-11)*

1. **Volumes held June 30, 1987**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.
   Record figure reported last year or footnote adjusted figure on p. 4.) _____
2. **Volumes added during year -- Gross**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.)
   (See instruction 8) _____
3. **Volumes withdrawn during year**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.) _____
4. **Volumes added during year -- Net** (Subtract line 3 from line 2) _____
5. **Volumes held June 30, 1988** (Add line 1 to line 4) _____
6. **Number of monographic volumes purchased**
   (Volumes for which expenditures are reported on line 15. Footnote if titles.)
   (See instruction 9) _____
7. **Number of current serials, including periodicals, purchased**
   (See instruction 10) _____
8. **Number of current serials, including periodicals, received but not purchased** (Exchanges, gifts, etc.) *(See instructions 10-11)* _____
9. **Total number of current serials received** (Add line 7 to line 8)
   (See instruction 11) _____
10. **Total microform units held June 30, 1988** *(See instruction 12)* _____

PERSONNEL *(See instructions 13-14)* (Round figures to nearest whole number.)

11. **Number of professional staff, FTE** *(See instruction 14)* _____
12. **Number of nonprofessional staff, FTE** _____
13. **Number of student assistants, FTE** _____
14. **Total FTE staff** (Add lines 11, 12, 13) _____

	Dollars Canadian (Canadian libraries only)	Dollars U.S. (Divide Canadian dollars by 1.2826)
EXPENDITURES *(See instructions 15-23)*		
15. **Monographs** (Expenditures for volumes reported on line 6) *(See instruction 16)*		
16. **Current serials including periodicals** *(See instruction 17)*		
17. **Other library materials (e.g., microforms, a/v, etc.)** *(See instruction 18)*		
18. **Miscellaneous** (All materials fund expenditures not included above) *(See instruction 19)*		
19. **Total library materials** (Add lines 15, 16, 17, 18)		
20. **Contract binding** *(See instruction 20)*		
21. **Salaries and wages -- professional staff** *(See instruction 21)*		
22. **Salaries and wages -- nonprofessional staff** *(See instruction 21)*		
23. **Salaries and wages -- student assistants** *(See instruction 22)*		
24. **Total salaries and wages** (Add lines 21,22,23) *(See instruction 21)*		
25. **Other operating expenditures** *(See instruction 23)*		
26. **Total library expenditures** (Add lines 19, 20, 24, 25)		
INTERLIBRARY LOANS *(See instruction 24)*		
27. **Total items loaned**		
28. **Total items borrowed**		
PH.D. DEGREES *(See instructions 25-26)*		
29. **Number of Ph.D.s awarded**		
30. **Number of fields in which Ph.D.s can be awarded** *(See instruction 26)*		
ENROLLMENT -- FALL 1987 *(See instruction 27)*		
31. **Total full-time students** (Add line 8, columns 13 & 14, and line 14, colums 13 & 14)		
32. **Total part-time students** (Add line 22, columns 13 & 14, and line 28, columns 13 & 14)		
33. **Total full-time graduate students** (Line 14, columns 13 & 14)		
34. **Total part-time graduate students** (Line 28, columns 13 & 14)		
FACULTY *(See instruction 28)*		
35. **Number of full-time instructional faculty**		

FOOTNOTES FOR ARL STATISTICS, 1987-88

(Compare footnotes from previous year as they appear in the published *ARL Statistics* and revise as appropriate. For your convenience, a copy of your library's footnotes is given on p. 4 of this questionnaire.) *(See instruction 29)*

1. Law Library statistics are included.

   _____ Yes _____ No _____ We do not have a Law Library

2. Medical Library statistics are included.

   _____ Yes _____ No _____ We do not have a Medical Library

3. Other main campus libraries not included:

   _____

   _____

   _____

4. Figures include reports from branch campus libraries. *(See instruction 5)*

   _____ Yes _____ No _____ We have only one campus.

5. If branch campus libraries are included, please specify which campuses.

   _____

   _____

6. If branch campus libraries are **not** included, please specify which campuses:

   _____

   _____

7. Basis of volume count is: _____ Physical _____ Bibliographical

8. Count of current serials (Questions 7-9) includes government document serials.

   _____ Yes _____ No

9. Fringe benefits are included in expenditures for salaries and wages (Questions 21-24).

   _____ Yes _____ No

10. Other comments:

    _____

    _____

    _____

    _____

    _____

FOOTNOTES FOR ARL STATISTICS, 1987-88

11. Footnotes as published in the 1986-87 *ARL Statistics*. Please indicate revisions, additions, and deletions as appropriate. Also, please indicate if any footnotes published last year are still valid if they are unchanged. Note: number in ( ) refers to the column in Library Data Tables in 1986-87 *ARL Statistics*.

Please return completed questionnaire to the ARL Office by **October 7, 1988.**

Reporting Institution: _____

Library Director's Signature: _____

Association of Research Libraries, 1527 New Hampshire Avenue, N.W., Washington, D.C. (202) 232-2466

FOOTNOTES TO THE ARL STATISTICS, 1987-88

Institution	Category from Main Tables	Notes
ALABAMA		All figures are as of September 30, 1988.
	(17)	Includes Law Library and Map Library only; other libraries do not separate expenditures for audiovisual materials and microforms.
	(25)	Includes bibliographic utility, memberships, and literature searching; these expenditures reported in 1986-87 as library materials.
ALBERTA		All figures are as of March 31, 1988.
		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, and Map Library.
	(1)	1986-87 figure revised.
	(15,16)	Figures including outside funding would be (15) $1,765,795 (Can.); (16) $3,068,335 (Can.).
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures are University provided funding only.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,335,867; (16) $2,983,501; (17) U/A; (18) U/A; (19) $4,319,368; (20) $144,906; (21) $3,449,467; (22) $6,048,093; (23) $705,000; (24) $10,202,560; (25) $2,040,878; (26) $16,707,712.
ARIZONA	(1)	Includes government documents received through 1978.

Institution	Category from Main Tables	Notes
ARIZONA (cont.)	(5-7)	Government documents included until 1978.
ARIZONA STATE		Includes Arizona State University West Campus.
	(1)	1986-87 figures revised.
	(12)	Two FTE positions were grant-funded.
BOSTON		Includes the Theology Library.
BOSTON PUBLIC	(1)	Includes branch libraries (807,752) and general library (780,944). Excludes patents (8,500,000+), prints (700,820+), and manuscripts (1,000,000+).
BRIGHAM YOUNG		Figures are as of August 31, 1988.
BRITISH COLUMBIA	(1-8,15-26)	Figures are as of March 31, 1988.
	(4,15-19)	Includes government publications.
	(8)	Microform holdings including government document microforms are 3,612,223.
	(11)	Includes 3.5 grant-funded positions.
	(12)	Includes 5.5 grant-funded and cost recovery positions.
	(17,18)	Included in Monographs Expenditures (15).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $2,484,038; (16) $2,575,166; (17) U/A; (18) U/A; (19) $5,059,204; (20) $208,202; (21) $4,084,516; (22) $5,331,181; (23) $872,516; (24) $10,288,213; (25) $1,365,867; (26) $16,921,486.
BROWN		Includes John Carter Brown Library, Annmary Brown Library, and Art Slide Library.
	(18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
CALIF., BERKELEY	(17,18)	Included in Monographs Expenditures (15).

Institution	Category from Main Tables	Notes
CALIF., DAVIS		Includes Harrison Western Research Center Library collection of 17,736 bound volumes and 107 non-document serials in Fair Oaks, California.
CALIF., IRVINE	(7)	Figures for current serials including government documents serials is 19,235.
	(8)	Microform holdings including government publications microforms are 1,491,925.
	(18)	Includes memberships ($21,237) and other expenditures ($39,719).
CALIF., LOS ANGELES	(1)	1986-87 figure revised.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
	(5-7)	Includes cataloged government document serials.
	(8)	Includes Microform Room in main library for the first time.
	(11)	Professional staff includes the following position titles: Specialist, Principal Administrative Analyst, Senior Administrative Analyst, Administrative Analyst, Programmer I-IV, Senior Accountant, MSO I-IV, Principal Editor, Senior Editor, and Library Assistant V.
CALIF., RIVERSIDE	(19)	Includes donations and budgeted funds.
	(23)	Includes $33,097 in federal work study funds.
	(25)	Includes grants, opportunity funds, and budgeted funds.
CALIF., SAN DIEGO	(5-7)	Includes 9,823 government document serials and 7,913 monographic and publishers' series received on standing order.

Institution	Category from Main Tables	Notes
CALIF., SAN DIEGO (cont.)	(14)	Includes 12.84 FTE hired for cost recovery operations, special projects, and grants.
	(18)	Includes machine-readable data files ($8,549) and data services ($41,494). (25)Includes offsetting internal recharge income of $69,646.
		Faculty figures are FTE.
CALIF., SANTA BARBARA	(5-7)	Includes government documents serials excluded in 1986-87.
	(8)	Prior years' count revised on the basis of 1987-88 inventory.
	(17)	Included in Monographs Expenditures (15).
CANADA INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION		Includes 14 branch libraries throughout Canada which serve the divisions of the National Research Council of Canada, CISTI's parent organization.
		All figures are as of March 31, 1988.
	(24)	Includes fringe benefits.
	(19,24-26)	Expenditures reported in Canadian dollars were: (15) U/A; (16) U/A; (17) U/A; (18) U/A; (19) $8,494,000; (20) U/A; (21) U/A; (22) U/A; (23) U/A; (24) $8,007,000; (25) $8,079,000; (26) $24,580,000.
CASE WESTERN RESERVE	(1-3)	Count is physical for some libraries and bibliographical for others.
	(5-7)	Includes government document serials in Medical Library.
	(11)	Includes 1 FTE paid through grant funds.
	(12)	Includes 1 FTE paid through grant funds and 1 FTE on special project.
CENTER FOR RESEARCH LIBRARIES	(5-7)	Excludes state documents.

Institution	Category from Main Tables	Notes
CENTER FOR RESEARCH LIBRARIES (cont.)	(17,26)	Restricted-fund expenditures included for first time.
CHICAGO	(5-7)	Includes cataloged government document serials.
	(10)	Does not include 4,845 borrowed from the Center for Research Libraries.
	(16)	Includes monographic series.
	(19)	Reflects budget adjustments due to over-expenditure in 1986-87.
CINCINNATI	(15)	Includes Other Library Materials (17).
	(16)	Includes microforms.
	(17,18)	Included in Monographs Expenditures (15).
	(21,22)	Figures unavailable. A combined salary figure for professional and non-professional staff totals $3,781,753.
	(26)	Includes $716,377 for operation of automated library system.
		Ph.D. counts include doctoral degrees in all fields and all doctoral degrees awarded.
COLORADO	(7)	Current serials holdings including government document serials are 23,551.
	(8)	Microform holdings including government document microforms are 3,553,291.
	(12)	Includes 2 FTE paid from grant funds and 5.5 FTE paid from auxiliary funds.
	(13)	Includes 30 FTE paid from work study funds.
	(18)	Bibliographic utility expenditures.

Institution	Category from Main Tables	Notes
COLORADO STATE	(18)	Includes ARL ($6,173); CRL ($18,920); RLG ($66,000); RLIN ($177,439); OCLC tapeload ($13,000); IBDBS ($19,659);and ILL charges (excluding RLIN, which is in RLIN total, and including general supplies based on 5.5% of OCE)($33,095).
	(20)	Does not include $28,984 of in-house bindery supplies.
	(25)	Includes $96,960 payment for IBM 4361; $100,000 allocation to Information Systems for NOTIS support; and $64,640 payment on storage facility.
COLUMBIA	(7)	Number of serials recounted this year.
CONNECTICUT		Includes Hartford Regional Library. Excludes Avery Point, Stamford, Waterbury, and Litchfield County Center for Higher Education.
	(17,18)	Included in Monographs Expenditures (15).
CORNELL		Includes Geneva Experiment Station..
	(15-18)	Unable to differentiate expenditure categories.
DARTMOUTH	(11-14)	Includes 1 FTE professional, 7 FTE non-professionals, and 1 FTE student assistant paid from grant funds.
	(17)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
DELAWARE		Includes Marine Studies Library at the University of Delaware Marine Studies Research Complex in Lewes, Delaware.
	(11-14,21-24)	Figures do not include professional and nonprofessional staff in Management Information Services assigned to the library.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).

Institution	Category from Main Tables	Notes
DUKE		Includes Fuqua School of Business Library.
	(8)	Counts based on physical microform pieces. Includes Law Library government documents.
	(11)	Includes .75 FTE on special projects and grants.
		Faculty figure includes faculty with regular rank.
EMORY	(1)	Figure for 1986-87 revised. Government documents excluded for the first time in 1987-88.
	(11-26)	Figures are for fiscal year ending August 31, 1988.
	(14)	Includes 5.75 FTE cost recovery positions and 9.25 FTE paid from special project and grant funds.
	(18)	Includes database searches ($59,033) and bibliographic utilities ($51,268).
FLORIDA	(8)	Excludes 1,254,936 government document microforms, some of which were formerly included in this count.
	(11)	Includes .6 FTE special project staff.
	(12)	Includes 2 FTE special project staff.
	(13)	Includes all hourly staff.
	(18)	Includes postage for incoming material, Remarc, Datalinks, and some SOLINET expenses. Excludes NOTIS automation and RLG services paid by the Florida Center for Library Automation.
	(23)	Includes all hourly staff.
		Full-time and part-time graduate student figures include law and medical students.
FLORIDA STATE		Excludes Development Research School; includes branch campus in Panama City (holdings and materials expenditures only).

Institution	Category from Main Tables	Notes
FLORIDA STATE (cont.)	(15)	Includes microforms, audiovisual materials, etc.
	(17,18)	Figures available for law library only.
		Ph.D's awarded includes all doctoral degrees.
GEORGETOWN	(5-7)	Includes government documents if cataloged and not part of the Depository.
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
	(1,2)	Includes cataloged government documents, some of which are shelved together in the Main and Science Libraries.
	(7)	Includes some monographic series received on standing order.
GEORGIA TECH	(1-7)	Includes government documents that are cataloged, classified, and housed separately.
GUELPH		Figures are as of April 30, 1988.
	(1)	Includes cataloged government documents.
	(18)	Indicated in Serials Expenditures (16).
	(25)	Increase over 1986-87 reflects loss of special revenue and purchase of new minicomputer.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $666,500; (16) $1,238,313; (17) $174,514; (18) U/A; (19) $2,079,327; (20) $81,735; (21) $1,428,815; (22) $2,116,659; (23) $138,755, (24) $3,684,229; (25) $425,988; (26) $6,271,309.
HARVARD		Includes research institutions in District of Columbia and Italy.
	(1)	1986-87 figure revised.
	(8)	Includes some government documents.

Institution	Category from Main Tables	Notes
HARVARD (cont.)	(17)	In previous years, most microform expenditures were included in figures for serials and monographs.
HARVARD	(18)	Significant decrease in this category reflects reassignment of expenses in several small units.
	(26)	Separate figures for expenditures from grants and special projects not available. Expenditures do not include fringe benefits ($3,885,469), and building and maintenance ($2,040,632) charged to library budget. Total reported expenses including these items: $43,122,591. Cost recovery items ($3,008,552) are included this year.
		All Ph.D.'s are awarded through the Graduate School of Arts and Sciences.
		Number of full-time instructional faculty excludes Medical School, School of Public Health, and Dental School.
HAWAII	(5,6)	Estimated figures.
	(18)	Included in Monographs Expenditures (15).
	(25)	1986-87 figure included one-time automation expenditures.
HOUSTON		All figures are as of August 31, 1988.
	(17)	Includes Law Library only.
HOWARD	(18)	Includes computer-assisted legal research software and instructional software ($5,000); LC cards, etc. ($3,500); miscellaneous albums, posters, etc. ($2,500); and newspapers ($10,700).
ILLINOIS, CHICAGO	(17)	Estimated figure.
ILLINOIS, URBANA	(7)	Estimated figure.
	(11)	Includes 23 FTE graduate assistants and 12 FTE funded from research grants or other temporary funds.

Institution	Category from Main Tables	Notes
INDIANA	(1)	1986-87 figure revised.
	(7)	Excludes government documents serials included in previous years.
IOWA	(5,7)	Includes only those government documents received on paid subscriptions.
	(11-14)	Includes 6 FTE on special retrospective conversion project.
	(17)	Figure available for Law Library only ($69,350). Expenditures for other libraries are included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Automation expenditures.
	(21)	Excludes salary for .5 FTE Associate Dean for Research in Law.
	(26)	Includes $51,370 in gifts.
IOWA STATE	(5-7)	Includes government document serials that are cataloged, classified, and shelved as part of the collection.
	(8)	Includes government publications microfilm.
JOHNS HOPKINS		Includes Eisenhower Library; Peabody Conservatory Library; Welch Medical Library; School of Hygiene and Public Health Library; Applied Physics Laboratory Library; School of Advanced International Studies in Washington, DC, and Bologna, Italy; the Center for Italian Studies in Florence, Italy; the Montgomery County Center in Rockville, MD; and the School of Continuing Studies' Columbia Center and Downtown Center.
	(1)	1986-87 figure revised.
	(18)	Includes literature searching, computer-assisted instruction, and postage for library materials.
KANSAS		Includes School of Medicine in Kansas City.

Institution	Category from Main Tables	Notes
KANSAS (cont.)	(17)	Figures for main library included in Monographs Expenditures (15).
		Count of Ph.D. fields includes one joint program with Kansas State, for a total of 52 fields at Lawrence campus and 11 at Medical Center in Kansas City.
KENT STATE	(5)	Includes continuations.
	(6)	Estimated figure.
	(7)	Excludes 4,750 government serials.
	(8)	Excludes government documents.
	(11-14,17,19,21-26)	Figures include Audiovisual Services, Computer Assisted Instruction, and Teleproduction.
	(25)	Includes fringe benefits.
KENTUCKY	(7)	Excludes government documents. Excludes Disclosure 10K and company annual reports included in 1986-87.
	(11,12)	Includes 4 FTE professionals and 2 FTE nonprofessionals paid from grant funds.
	(17)	Included in Monographs Expenditures (15).
	(18)	Includes OCLC services ($45,000); postage ($43,166); data services ($1,978); security strips ($9,400); and binding supplies ($4,200).
	(25)	Includes $193,870 in grants and gifts and $130,535 in income. Significant decrease from 1986-87 due to completion of automation project, change in copy service structure, and reduction in non-recurring funding.
LAVAL	(4)	Basis of count is titles.
	(15)	Includes $21,482 (Can.) in grant funds.
	(17)	Includes $344,983 (Can.) for the conversion on microfilm of part of the Scientific Library's periodical collections.

Institution	Category from Main Tables	Notes
LAVAL (cont.)	(18)	Expenditures for online literature searching.
	(20)	Includes only special contracts and binding furniture. Most binding is done in-house. Salaries involved are $174,803 (Can.).
	(24)	Fringe benefits, which are not included, total Can. $1,260,588 (U.S. $982,837).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $916,020; (16) $1,801,876; (17) $375,315; (18) $152,515; (19) $3,245,726; (20) $74,099; (21) $3,365,994; (22) $4,595,130; (23) $140,002; (24) $8,101,126; (25) $1,007,782; (26) $12,428,733.
LIBRARY OF CONGRESS		All figures are as of September 30, 1988.
	(6-7)	Estimated titles.
	(24)	Includes fringe benefits.
LINDA HALL		All figures are as of December 31, 1987.
LOUISIANA STATE		Includes Law Library and Veterinary Medicine Library.
	(1)	1986-87 figure revised. Includes bound government documents.
	(4)	Estimated figure.
	(8)	1986-87 figure revised due to switch from titles count to units count.
	(17)	Expenditures for microforms for main library unavailable. Figure includes only phono-record costs of $7,500 for main library.
	(23)	Includes $206,682 in work-study funds.
		Figures for graduate enrollment include all first professional degrees.
McGILL		All figures are as of May 31, 1988.
	(15)	Includes microforms, audiovisual material, manuscripts, maps, and charts.

Institution	Category from Main Tables	Notes
McGILL (cont.)	(17)	Included in Monographs Expenditures (15) and Serials expenditures (16).
	(18)	Includes $39,581 (Can.) for Tattletape; $379,580 (Can.) for bibliographic searching, and $347,252 (Can.) for retrospective conversion bibliographic searching.
	(22)	Includes $207,407 (Can.) for contracted security services.
	(25)	Includes $69,200 (Can.) for capital equipment and $109,705 (Can.) for automation hardware and software installations. 1986-87 figure included one-time expenditures.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $2,036,001; (16) $2,247,470; (17) U/A; (18) $813,433; (19) $5,096,904; (20) $169,800; (21) $3,465,385; (22) $5,071,645; (23) $554,789; (24) $9,091,819; (25) $630,187; (26) $14,988,710.
McMASTER		All figures are as of April 30, 1988.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,715,736; (16) $2,309,701; (17) U/A; (18) $13,604; (19) $4,039,041; (20) $105,455; (21) $1,540,366; (22) $2,982,411; (23) $345,394; (24) $4,868,171; (25) $505,861; (26) $9,518,528. 1986-87 figure for number of Ph.D. fields revised.
MANITOBA		All figures are as of March 31, 1988.
	(11)	Includes 1 FTE professional paid from medical grant.
	(12)	Includes .67 FTE paid from grant.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).

Institution	Category from Main Tables	Notes
MANITOBA (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) $671,291; (16) $1,874,430; (17) U/A; (18) U/A; (19) $2,545,721; (20) $133,573; (21) $2,325,995; (22) $2,850,453; (23) $460,927; (24) $5,637,375; (25) $851,731; (26) $9,168,400.
MARYLAND		Statistics reported include data from the College of Library and Information Services Library for collections and expenditures for library materials, but do not include data for personnel, salaries and wages, other operating expenses, or interlibrary loans.
	(13,24)	Expenditures for federal work study students are not included, but these students are included in the calculation of FTE student assistants.
		Ph.D. count includes all doctoral fields.
MASSACHUSETTS	(1)	Figure for 1986-87 revised.
	(7)	Includes 310 serial titles received as U.S. depository items. These titles are fully cataloged, classified, and intershelved in the main and branch collections.
	(12)	Includes 8 temporary staff for retrospective conversion, and 2 trust-funded staff.
	(23)	Includes Federal Work Study contribution ($99,997) excluded in previous years.
		Ph.D.'s awarded excludes 98 Ed.D. degrees.
MIT	(11,12)	Includes 4.7 FTE professionals and 4 FTE nonprofessionals paid through grant funds.
	(18)	Includes $95,337 for bibliographic utilities; $108,131 for literature searching.
MIT (cont.)	(26)	Includes $152,081 in grant funds.
MIAMI	(21)	Excludes director's salary.
MICHIGAN		Excludes Dearborn Campus Library, and the University of Michigan, Flint Library.

Institution	Category from Main Tables	Notes
MICHGAN (cont.)	(1)	Includes microforms in the Transportation Research Institute.
	(16)	Includes microform serials.
	(23)	Transportation Research Institute personnel budget is covered by parent institution except for $21,465.49.
MICHIGAN STATE	(1)	Figure for 1986-87 revised.
	(5)	Includes some monographic series that cannot be disaggregated.
	(5-7)	Government documents included for the first time.
	(11)	Includes .5 FTE paid from grant funds.
	(12)	Includes 1 FTE paid from grant funds and 4 FTE from cost recovery funds.
	(13)	Includes 1 FTE paid from grant funds and 19 FTE from cost recovery funds.
	(16)	Includes expenditures for some monographic series that cannot be disaggregated.
	(17)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
		Figure for number of Ph.D. fields revised from previous years.
MINNESOTA	(1)	1986-87 figure revised.
	(18)	Includes CRL dues ($28,752); South American Microfilming Project ($550); PL480 ($12,543); and sales tax ($209,006).
MISSOURI	(5,7)	Includes law monographic series.
	(18)	Includes $12,000 paid to OCLC by Law Library and $20,548 for computer-assisted legal research.
	(21)	Includes $119,681 for UM-Wide Library Systems Office for online catalog.

Institution	Category from Main Tables	Notes
MISSOURI (cont.)	(25)	Includes $215,469 for UM-Wide Library Systems Office for online catalog.
NATIONAL AGRICULTURAL LIBRARY		U.S.D.A. field libraries are not included.
		Figures are as of September 30, 1988.
	(1)	1986-87 figure revised to include unbound serial volumes.
	(2)	Serial volumes added is estimated count of unbound serials; binding of periodicals is not current.
	(4-6)	Figures include audiovisual materials, microforms, and software.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
NATIONAL LIBRARY OF CANADA		Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1988.
	(4)	In addition to monographs purchased, two copies of documents published in Canada are received on legal deposit.
	(11-14)	Authorized person-years.
	(15,16)	Canadian monographs and serials are received on legal deposit.
	(18)	Includes expenditures on custom brokers, memberships, Telex, freight and express charges, and communication (databases).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $718,395; (16) $563,980; (17) $826,204; (18) $45,253; (19) $2,153,832; (20) $11,955; (21) $7,660,946; (22) $10,701,580; (23) $427,440; (24) $18,789,966; (25) $12,510,661; (26) $33,466,414.

Institution	Category from Main Tables	Notes
NATIONAL LIBRARY OF MEDICINE		Figures are as of September 30, 1988.
	(11-26)	Statistics reflect the Library Operations component of the Library: Public Services, Technical Services, Bibliographic Services, and History of Medicine Divisions, as well as the Medical Subject Headings staff, the staff of the Regional Medical Library program, and the Office of the Associate Director for Library Operations.
NEBRASKA	(4-6)	Does not include figures for law library, which are not available.
	(5-7)	Includes cataloged government documents.
	(5)	Figure for law library unavailable. Main library figure is 13,276.
	(6)	Figure for law library unavailable. Main library figure is 3,319.
	(7)	Includes law library.
	(16)	Includes monographic and publishers' series for law library only. Figure also includes a temporary enhancement of $636,423 from the Chancellor's office.
	(18)	Includes law library figures only.
NEWBERRY LIBRARY	(4)	Number of titles.
	(7)	Estimated figure.
	(20)	In-house binding costs were $71,950.
	(24,25)	Includes salaries and wages associated with buildings, maintenance, and the Division of Research and Education.
NEW MEXICO	(1-3)	Includes some non-print volumes.

Institution	Category from Main Tables	Notes
NEW MEXICO (cont.)	(7)	Excludes government documents.
	(8)	Includes ERIC microfiche. This figure represents a more complete inventory than the 1986-87 statistics.
	(17)	Included in Monographs Expenditures (15).
		Full time instructional faculty figures include Law and Medical School faculty.
NEW YORK		All figures as of August 31, 1988.
NEW YORK PUBLIC LIBRARY		Figures are for 1987-88. In the past, statistics were reported on the prior year basis.
	(3)	Net figure reflects 48,000 volumes withdrawn and transferred to other libraries.
	(15-26)	Estimated figures; audited financial statements for FY 88 not yet available.
NEW YORK STATE LIBRARY		All figures as of March 31, 1988.
	(1)	Includes cataloged government documents.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(14,26)	Include figures for NEH, HEA II-C, and Library fund as well as state and LSCA funds.
NORTH CAROLINA		Includes Institute of Marine Sciences Library.
	(11,12)	Includes 4 FTE professionals and 1 FTE nonprofessional on special grant funds. Does not include 7.5 FTE paid from funds contributed by Duke and North Carolina State Universities for support of the Triangle Research Libraries Network.

Institution	Category from Main Tables	Notes
NORTH CAROLINA (cont.)	(18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(26)	Includes $2,283,247 in grants, trust, and other special funds. Does not include $374,542 in expenditures for the Triangle Research Libraries Network from funds contributed by Duke and North Carolina State Universities.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
	(11-14)	Include 1 FTE professional and 2 FTE nonprofessionals on Title II-C grant.
	(18)	Includes bibliographic utilities ($115,174), memberships ($29,767), and other ($76,367).
NORTHWESTERN		Includes Dental Library.
		All figures are as of August 31, 1988.
	(4)	Excludes Law and Medical Libraries.
	(9,10)	As of January 1, 1988, figures are for requests rather than items recorded.
	(18)	Law Library figures only.
NOTRE DAME	(17)	Figure only includes Law Library. Figure for main library unavailable.
OHIO STATE		Includes University Archives. Excludes curriculum/media center of College of Education and several departmental reading rooms.
	(1,7)	Includes cataloged government documents.
	(5,6)	Apportionment of purchased and not purchased serials reflects analysis of recently computerized serial acquisition records.
	(11)	Includes 4.75 FTE positions funded by grants.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).

Institution	Category from Main Tables	Notes
OHIO STATE (cont.)	(25)	Includes expenditures attributed in 1983-84 and earlier years to the University computer center.
OKLAHOMA		Volume count is bibliographical, reported in previous years as physical.
OKLAHOMA STATE		Includes OSU Technical Branches in Oklahoma City and Okmulgee.
	(21-24)	Fringe benefits included.
OREGON	(4)	Figure reported refers to titles.
	(5,6)	Excludes duplicate subscriptions.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Includes bibliographic utilities, LEXIS/WESTLAW searching, shipping charges, and miscellaneous.
		Full-time faculty figure represents tenured and tenure-track faculty. 1986-87 figure represented FTE.
PENNSYLVANIA	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
		In 1985-86 and 1986-87 statistics the number of faculty reported included permanent and temporary faculty. For 1987-88, only the permanent faculty are reported.
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuykill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College, King of Prussia Center for Graduate Studies, and Capital College at Middletown, PA.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).

Institution	Category from Main Tables	Notes
PITTSBURGH		Excludes branch campus libraries at Johnstown, Greensberg, Bradford, and Titusville.
	(11-14)	Includes 3 FTE professionals, 1 FTE nonprofessional, and 1 FTE student assistant paid from grant funds.
	(17)	Excludes microforms, except for the law library.
	(18)	From ILL payments.
	(25)	Includes $179,724 from fees for photocopy services and $44,494 from endowment funds.
		Faculty figures include both instructional faculty and faculty identified otherwise.
PRINCETON	(24)	Figures prior to 1985-86 included fringe benefits.
PURDUE	(21,22)	1986-87 figures revised.
QUEEN'S		Figures are as of April 30, 1988.
	(16)	Includes microforms.
	(17)	Includes audiovisual material only.
	(24)	Excludes Chief Law Librarian.
	(25)	Includes cost recovery of $176,937 (Can.).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,327,382; (16) $2,132,623; (17) $13,673; (18) $932,077; (19) $4,405,755; (20) $110,244; (21) U/A; (22) U/A; (23) $182,924; (24) $5,036,287; (25) $553,812; (26) $10,106,098.
RICE	(9)	Includes ILL to corporate libraries.
	(17)	Microform expenditures are included in Monographs Expenditures (15).
	(18)	Includes bibliographic utilities ($46,200), database searching ($67,470), security ($23,500), and memberships ($14,500).

Institution	Category from Main Tables	Notes
RICE (cont.)	(19,25,26)	Includes all sources of funding.
	(24)	Includes positions funded by external grants, contracts, and transfers from other university budgets and cost centers.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
	(1)	Sibley Music Library volume count is bibliographical.
	(5,6,18)	Sibley Music Library figures unavailable.
	(5,7)	Includes purchased government document serials.
	(8)	Excludes government documents.
	(15)	Includes microform series and backfiles of periodicals.
	(16)	Includes monographic and publishers' series.
	(17)	Includes Sibley Music Library only.
RUTGERS		Figures include two law libraries not reported in previous years, services to a non-Rutgers medical school, and campuses in Camden, Newark, and New Brunswick.
	(19,22)	Excludes staff hired for special projects and grants.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
		Figures are as of April 30, 1988.
	(1)	1986-87 figure revised.
	(4)	Number of titles rather than volumes counted.
	(12)	Includes 1.2 FTE hired for special projects and/or grants.
	(17)	Included in Monographs Expenditures (15).

Institution	Category from Main Tables	Notes
SASKATCHEWAN (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) $855,721; (16) $2,394,059; (17) U/A; (18) U/A; (19) $3,249,780; (20) $121,526; (21) $1,402,142; (22) $2,737,061; (23) $201,804; (24) $4,341,007; (25) $516,849; (26) $8,229,162.
SMITHSONIAN		Includes Smithsonian Astrophysical Observatory in Cambridge, MA and Mt. Hopkins, AZ; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Museum of American Art, and National Portrait Gallery.
		All figures are as of September 30, 1988.
	(1)	1986-87 figure revised.
	(2)	12,548 of total is title count.
	(16)	Includes $169,000 for pre-payment of subscriptions.
	(18)	Includes $12,000 for conservation, $55,000 for database rental, and $25,000 for document delivery.
SOUTH CAROLINA	(11)	Includes 1 FTE paid from grant funds.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
SOUTHERN CALIFORNIA		Includes the Andrus Gerontology Center Library, the Hancock Library of Biology and Oceanography, and the Arnold Schoenberg Institute Library, and the Occupational Therapy/Physical Therapy and Nursing Collection. Does not include the Safety and Systems Management Library.
	(1)	1986-87 figure revised.
	(18)	Includes $197,580 for RLG membership and $93,236 for online searching.

Institution	Category from Main Tables	Notes
SOUTHERN ILLINOIS		Excludes School of Medicine Library (Springfield), which is not administratively part of Library Affairs.
	(8)	Excludes government documents microforms.
	(18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
STANFORD		Figures include Hopkins Marine Station Library.
	(14)	Includes 21 FTE paid from grant and contract funds.
	(15-26)	Figures are as of August 31. 1988.
	(26)	Includes $1,395,191 in grant and contract funds.
SUNY, ALBANY		Includes the Dewey Graduate Library of Public Affairs and Policy on East campus.
	(4,5,7,26)	Figures are as of March 31, 1988.
	(8)	Includes government document microforms.
	(11-14)	Includes 1 FTE professional, 4.4 FTE non-professionals, and 5.9 FTE student assistants in cost recovery or grant-funded positions.
	(18)	Includes: Interlibrary loan service ($3,541), memberships ($104,332), bibliographic utilities ($140,727), computer-based reference service ($16,299), and miscellaneous ($330).
		Ph.D.'s awarded is an estimated figure.
SUNY, BUFFALO		Figures are as of March 31, 1988.
	(4)	Excludes monographs in series and continuations.
	(5)	Includes monographic series.
	(11-14)	Includes 6 FTE professionals, 3 FTE nonprofessionals, and 15 FTE student assistants on special projects grants.

Institution	Category from Main Tables	Notes
SUNY, BUFFALO (cont.)	(16)	Includes expenditures for monographic series.
	(18)	Includes memberships ($37,900) and bibliographic utilities and literature searching ($117,605).
	(23)	Excludes Federal work study expenditures.
		Ph.D.'s awarded are as of June 30, 1988.
SUNY, STONY BROOK		Figures are as of March 31, 1988.
	(7)	Includes government documents for Health Sciences Library.
	(8)	Includes government documents for main library.
	(15)	Includes microforms, maps, and audiovisual materials for main library.
	(17)	Includes microforms and audiovisual materials for Health Sciences Library ($278), periodical backfiles ($23,373), reprints of periodical articles ($1,825), and some newspapers on microfilm ($9,217).
	(18)	Includes bibliographic utilities and automation ($258,540), literature searching ($17,417), and memberships ($73,019).
SYRACUSE		Excludes Utica College.
	(11)	Includes 3.5 FTE in Academic Computing Center.
	(18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(24)	Includes $130,087 for Academic Computing Center staff.
	(25)	Includes Academic Computing Center computer rentals, collection insurance, CRL dues, as well as regular operating expenditures.
		Ph.D.'s awarded include all doctoral degrees.

Institution	Category from Main Tables	Notes
TEMPLE		Excludes Health, Physical Education, Recreation and Dance Library; Media Learning Center; Institute on Aging Library; Journalism Library; Test Library and Measurement Research Center; and Presser Learning Center. Includes branch campus libraries in Ambler, PA; Temple University Center City, Philadelphia; Rome; and Tokyo.
	(5-7)	Excludes government document serials included in previous years.
		Ph.D.'s awarded include all doctoral degrees.
TENNESSEE		Figures include Law Library not previously reported.
	(4)	Law Library figures unavailable.
	(6)	Includes classified documents; excludes Law Library.
	(9,10)	ILL closed for 2 months during library move.
	(17,18)	Figures for Law Library only.
	(21,22)	Includes longevity pay.
	(25)	Excludes recoveries.
TEXAS		Figures are as of August 31, 1988.
		Includes the General Libraries, the Humanities Research Center, and the Tarlton Law Library.
	(5)	Figures unavailable for Law Library; figures for the General Libraries and the Humanities Research Center are 25,660 and 854 respectively.
	(6)	Figures unavailable for Law Library and Humanities Research Center; figure for General Libraries is 40,828.
	(14)	Includes 2.75 FTE staff hired on grant and/or recovery funds.

Institution	Category from Main Tables	Notes
TEXAS (cont.)	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(19)	Includes expenditures of General Libraries ($3,822,087), Humanities Research Center ($319,518), and Law Library ($700,674). Does not include $7.8 million in partial payment for the Pforzheimer Library of English Literature housed in the Humanities Research Center.
	(23)	Includes federal work study funds.
	(25)	Includes $1,022,943 for automated catalog development for the General Libraries but not funds expended for computer upgrade in support of project. Also includes $119,828 for serials acquisition and control system for Law Library.
		Ph.D.'s awarded includes D.Ed. degrees.
		Faculty figure is budgeted FTE.
TEXAS A&M		Medical Library is a separate academic entity; data from its two branch libraries are not included.
		All figures are as of August 31, 1988.
	(4)	Figure reported represents titles.
	(8)	Includes NTIS documents.
	(15)	Includes some expenditures for Other Library Materials (17).
TORONTO		All figures are as of April 30, 1988.
		Includes only the libraries of the university within the President's budget; excludes libraries of the federated and affiliated institutions.
	(1)	1986-87 figure revised.
	(1,4,5,7)	Includes monographic series.

Institution	Category from Main Tables	Notes
TORONTO (cont.)	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(22,23)	Regular part-time assistants' salaries were counted with non-professional staff rather than with wages and students as in prior years.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $3,788,491; (16) $3,886,895; (17) U/A: (18) U/A; (19) $7,675,836; (20) $300,564; (21) $6,737,340; (22) $10,297,670;(23) $1,093,820; (24) $18,128,830; (25) $1,174,437; (26) $27,279,667.
TULANE		Includes Delta Regional Primate Research Center in Covington, Louisiana.
	(1)	1986-87 figure revised.
	(4)	Figure reported is a combination of titles and volumes.
	(18)	Includes SOLINET charges.
	(25)	Includes $750,000 grant for retrospective conversion.
		Faculty figure includes faculty in School of Medicine and School of Public Health and Tropical Medicine, not reported in 1986-87.
UTAH	(7)	1986-87 figure revised to eliminate government document serials not in general collection.
	(25)	Includes one-time funding of #396,779 for computer equipment.
VANDERBILT	(1)	Excludes 16,000 hours of videotape and 215 compact discs.

Institution	Category from Main Tables	Notes
VANDERBILT (cont.)	(9,10)	Includes Law Library figures.
	(16,17)	Law and Medical Library miscellaneous figures (17) are included in Serials Expenditures (16).
	(18)	Includes online search/bibliographic utilities only.
		Fulltime instructional faculty figure includes clinical faculty.
VIRGINIA	(16)	Includes expenditures for monographic series in Health Sciences Library.
VIRGINIA POLYTECHNIC & STATE UNIVERSITY		Includes "open reserve" collection of approximately 10,000 volumes at Northern Virginia Graduate Center in Falls Church, Virginia.
	(5)	1986-87 figure revised.
	(5-8)	Estimated figures.
	(11)	Includes 2 non-faculty department head positions.
	(16)	Includes pre-payment of $801,073 for 7,520 titles.
	(25)	Includes bibliographic utilities ($203,303); literature searching ($35,947); binding supplies and contractual services ($16,474).
		Full-time graduate student figure includes professional school (veterinary medicine) students.
WASHINGTON	(4)	Excludes Law Library.
	(11-14)	Includes 1 FTE professional, 5.5 FTE nonprofessionals, 13 FTE students paid from cost recovery operations.
	(21,22)	Law Library professional salaries are included in non-professional category (22) rather than professional (21).

Institution	Category from Main Tables	Notes
WASHINGTON STATE	(7)	1986-87 figure revised. Includes government documents and some monographic series.
	(8)	Includes government documents.
	(11-14)	Includes staff for Instructional Media Services. Also includes 2.2 FTE professionals, 4.933 FTE nonprofessionals, and 3.62 students paid from cost recovery and grant funds.
	(15)	Includes microforms.
	(16)	Includes microforms, CD-ROMs, and $17,491 in grants and cost recovery fund expenditures.
	(17)	Figures for Instructional Media Service purchase of film and videos only.
	(21)	Includes $12,544 grant and cost recovery fund expenditures.
	(22)	Includes $100,875 grant and cost recovery fund expenditures.
	(23)	Includes $44,284 grant and cost recovery fund expenditures.
	(24)	Includes $157,703 grant and cost recovery fund expenditures.
	(25)	Includes $331,724 grant and cost recovery fund expenditures.
WASHINGTON, ST. LOUIS	(4)	For Law Library, figure indicates number of titles added.
	(7)	Includes 3,101 current serials held in Law, Medical, and Dentistry libraries for which separate counts of purchased and not purchased are unavailable. Includes Law and Medical Library government documents.
	(8)	Includes government documents for Law Library; no separate count available.
	(17)	Separate costs not available for Central library system.

Institution	Category from Main Tables	Notes
WASHINGTON, ST. LOUIS (cont.)	(18)	Figures apply to only Law and Business Libraries.
	(25)	Includes on campus computing facilities and other automation costs, other services (i.e. postage, leases) and equipment. Also includes Social Security and annuity.
		Faculty figures do not include Medical School faculty. Total with Medical School is 1,478.
WATERLOO		Figures include the Engineering, Mathematics and Science Library, the University Map and Design Library, the Davis Centre Library, and the Optometry Reading Room.
		Figures are as of April 30, 1988.
	(1)	Includes cataloged government documents.
	(18)	Included in Monographs Expenditures (15), Serials Expenditures (16), and Other Library Materials Expenditures (17).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,314,065; (16) $1,636,490; (17) U/A; (18) U/A; (19) $2,950,555; (20) $73,985; (21) $1,884,657; (22) $2,829,793; (23) $253,431; (24) $4,967,881; (25) $537,859; (26) $8,530,280.
WAYNE STATE		All figures are as of September 30, 1988.
		Includes Ruether Archives of Labor and History and College of Pharmacy and Allied Health Professions.
	(14)	Includes 8 professional and 4 student assistant FTE on grant funding.

Institution	Category from Main Tables	Notes
WAYNE STATE (cont.)	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(21)	Includes one-time grant fund allocation of $99,742 for retrospective conversion.
	(23)	Includes one-time grant fund allocation of $32,667 for retrospective conversion.
	(25)	Includes one-time grant fund allocation of $187,771 for retrospective conversion. (26)Includes $250,000 one-time allocation for acquisitions and one-time expenditure of grant funds ($320,180) for retrospective conversion.
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges and School of Library and Information Science.
		Figures are as of April 30, 1988.
	(1)	1986-87 figure revised.
	(17,18)	Included in Monographs Expenditures (15).
	(21,22)	Professional and non-professional salaries and wages cannot be separated.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,463,737; (16) $2,429,596; (17) U/A; (18) 45,731; (19) $3,939,064; (20) $207,927; (21) U/A; (22) U/A; (23) $773,653; (24) $6,643,772; (25) $996,658; (26) $11,787,421.
WISCONSIN	(1)	Includes maps.
	(5-7)	Includes some government document serials which are cataloged.
YALE		Includes Lewis-Walpole Library in Farmington, Connecticut.
	(1-6)	Excludes typewritten, handwritten, and mimeographed works (treated as manuscript materials).
	(5,6)	Estimated figures.

Institution	Category from Main Tables	Notes
YALE (cont.)	(5-7)	Excludes newspapers.
	(18,26)	Includes one-time automation expenditure.
		Number of full-time instructional faculty excludes Medical School.
YORK		All figures are as of April 30, 1988.
		Includes Glendon Campus.
	(25)	Includes bibliographic utilities (Can. $180,485) and online searching (Can. $23,995).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,322,655; (16) $1,699,263; (17) $154,584; (18) $193,340; (19) $3,369,842; (20) $216,699; (21) $2,258,487; (22) $2,966,143; (23) $645,488; (24) $5,870,118; (25) $1,381,419; (26) $10,838,078.

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